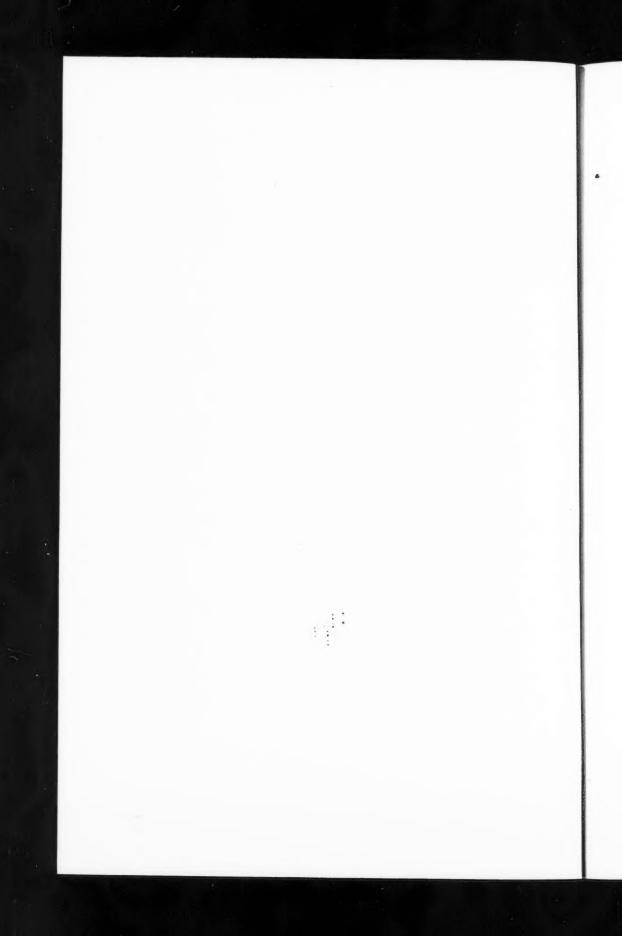
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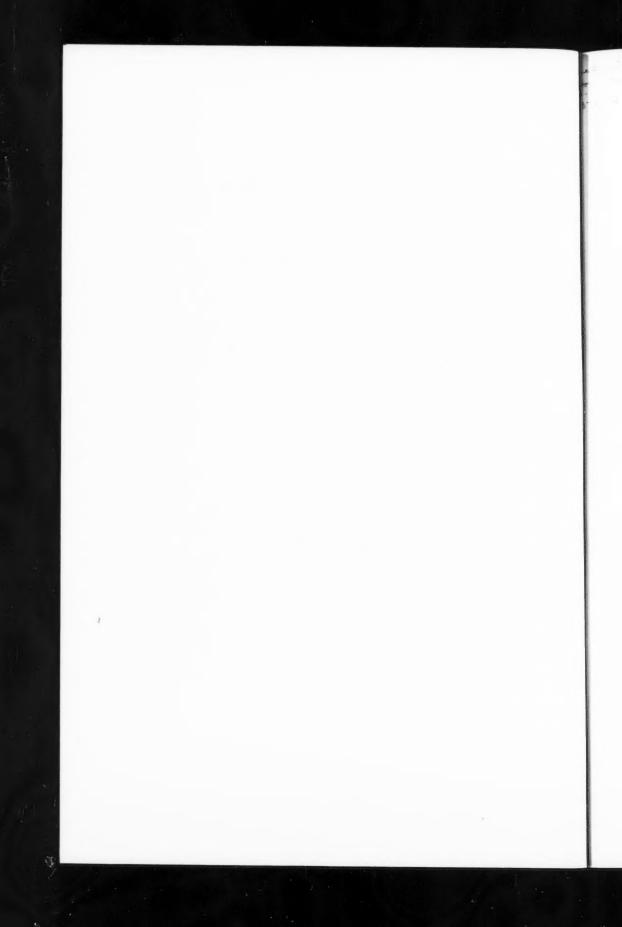


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Alphabetical List of Authors

ABBOTT, E. and A. C. IVY. The effect of lactation and exercise on the rate of involution of the uterus in the rat, 1936, 117: 487.

ABBOTT, W. O. See KARR and ABBOTT, 1935, 113: 75.

See Starr, Abbott, Comroe, Elsom and Reisinger, 1933, 105: 90.

ABELS, J. C. On the lysin present in normal urine, 1934, 107: 603.

ABERLE, S. B. D. The interrelation of a gonotropic hormone and vitamin A, 1933, 106:267.

See Van Wagenen and Aberle, 1931, 99: 271.

ABOUSHADID, E. See TURNER and ABOUSHADID, 1930, 92: 189.

ABRAMS, J. and R. W. GERARD. The influence of activity on the survival of isolated nerve, 1933, 104: 590.

ABRAMSON, D. I. and J. C. CARDWELL. A new anatomic basis for the spread of the impulse in the mammalian ventricle, 1934, 109: 1.

ABRAMSON, D. I. and K. JOCHIM. The pathway taken by the impulse in the mammalian ventricles, 1937, 119: 257.

The spread of the impulse in the mammalian ventricle, 1937, 120: 635.

ABRAMSON, D. I. and J. WEINSTEIN. A basis for the analysis of variations in the form of electrocardiographic curves resulting from experimental premature contractions, 1936, 115: 569.

Characteristic variations in combinations of linear chest electrodes (multiplane chest leads) resulting from experimental ventricular lesions, 1935, 111:

ABRAMSON, H. A. The electric mobility of oil droplets in soap sols and gels, 1931, 97: 500.

ABRAMSON, H. A. and J. DANIEL. Electric mobilities of proteins in alcohol solutions, 1931, 97: 501.

ABRAMSON, H. A. See Daniel and Abramson, 1932, 101: 28.

ACHESON, G. H., A. ROSENBLUETH and P. F. PARTINGTON. Some afferent nerves producing reflex responses of the nictitating membrane, 1936, 115: 308.

ACHESON, G. H. See ROSENBLUETH and ACHESON, 1937, 120: 514.

ACKERMAN, W. See KATZ and ACKERMAN, 1932, 101: 62.

ADAIR, G. S. See Quigley, Barcroft, Adair and Goodman, 1937, 119: 763.

ADAMS, M., M. H. POWER and W. M. BOOTHBY. Studies of the urine at hourly intervals after the administration of glycine, 1937, 118: 562.

The influence of glycine on the excretion of creatine and creatinine, 1935, 111:

ADAMS, M. See BOOTHBY and ADAMS, 1934, 107: 471. See BOOTHBY, ADAMS and BOLLMAN, 1934, 109: 13.

ADAMS, M. A. See Himwich and Adams, 1929, 91: 172.

See Himwich and Adams, 1930, 93: 568.

ADAMS, M. W., W. M. BOOTHBY and A. M. SNELL. Metabolic studies in osteoporosis, 1936, 114: 383.

ADAMS, W. E. See LIVINGSTONE, ANDREWS and ADAMS, 1931, 97: 588.

ADDIS, T. Hypertrophy of the gastrointestinal tract and high residue diets, 1932, 99:417.

ADELSON, L. See KEYS and ADELSON, 1936, 115: 539.

ADES, H. W., F. A. METTLER and E. A. CULLER. Distribution of acoustic pathways in the medial geniculate bodies, 1937, 119: 257.

ADLER, F. H. See McCough and Adler, 1932, 100: 78.

ADLER, H. F., E. L. BORKON and R. D. TEMPLETON. The comparative efficiency of oil and soap enemas in eliciting defecation in dogs, 1937, 119: 258.

ADOLPH, E. F. Anuria in the frog under the influence of carbon dioxide, 1934, 109:1.

Asphyxia of the frog's kidneys, 1934, 108: 177.

Control of urine formation in the frog by the renal circulation, 1936, 117: 366. Effects of carbon dioxide upon urine formation and glomerular blood flow, 1935,

Epinephrine and urine formation in the frog, 1936, 115: 200.

How pituitrin inhibits urine formation, 1936, 116: 1.

Osmosis into frog skin, and the effects of isolation, of orientation, and of the blood's circulation, 1931, 96: 587.

Oxygen tension and urine production in frogs, 1935, 111: 75.

The circulatory conditions required for urine formation, 1935, 113: 1.

The diffusion of water and of chloride through frog tissues, 1930, 93: 628.

The evaporation of frogs in relation to vapor tension, 1930, 93: 628.

The initial rates of swelling of isolated muscle and their relation to the osmotic exchanges within the frog, 1931, 96: 598.

The water exchanges of frogs with and without skin, 1931, 96: 569.

ADOLPH, E. F. and M. J. GERBASI. Blood concentration under the influences of amytal and urethane, 1933, 106: 35.

ADOLPH, E. F., M. J. GERBASI and M. J. LEPORE. Redistributions of water following transfusions and infusions, 1934, 107: 647.

Redistributions of water measured in blood and tissues, 1932, 101:1

The rate of entrance of fluid into the blood in hemorrhage, 1933, 104: 502. The rate of entrance of fluid into the blood in hemorrhage, 1933, 105: 1.

ADOLPH, E. F. and M. J. LEPORE. Blood pressure as a chief factor modifying the water content of tissues, 1931, 97: 501.

AGATE, F. J., JR. and R. L. ZWEMER. Some factors affecting adrenal insufficiency in the rat, 1935, 111:1.

AISNER, M. See King, Simonds and Aisner, 1935, 110: 573.

AITKEN, L. F. See Burns, Scharles and Aitken, 1931, 97: 233.

ALBRIGHT, F. See BAIRD, CLONEY and ALBRIGHT, 1933, 104: 489.

ALBRITTON, E. C., R. G. ALBRITTON and W. H. MARSHALL. Some effects of pitressin on tissue water and insensible water loss, 1935, 113: 2.

ALBRITTON, E. C. See Marshall and Albritton, 1935, 113: 95.

ALBRITTON, R. G. See ALBRITTON, ALBRITTON and MARSHALL, 1935, 113: 2.

ALEXANDER, B. See ERNSTENE, RISEMAN, STERN and ALEXANDER, 1935, 111: 440.

ALEXANDER, F. See Saul and Alexander, 1937, 119: 396.

ALLARDYCE, W. J. Studies on the chemistry and the physiology of the parathyroid hormone, 1931, 98: 417.

ALLEN, E., A. W. DIDDLE, T. H. BURFORD and W. U. GARDNER. Ovarian hormone threshold for experimental menstruation in monkeys, 1936, 117: 381.

ALLEN, E., A. W. DIDDLE and J. H. ELDER. Theelin content of pregnancy urine and placenta of the chimpanzee, 1935, 110: 593.

ALLEN, E., J. P. PRATT, Q. U. NEWELL and L. J. BLAND. Hormone content of human ovarian tissues, 1930, 92: 127.

ALLEN, F. M. Artificial hyperinsulism, 1932, 101: 2.

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ALLEN, L. and E. VOGT. A mechanism of lymphatic absorption from serous cavities, 1937, 119: 776.

A mechanism of lymphatic absorption with special reference to serous cavities, 1937, 119: 259.

Lymphatic absorption in excised tissue, 1937, 119: 260.

ALLEN, W. F. An experimentally produced premature systolic arhythmia (pulsus bigeminus) in rabbits, 1930, 94: 568.

An experimentally produced premature systolic arhythmia (pulsus bigeminus) in rabbits. II. Secondary factors which do not produce it, 1930, 95: 190.

An experimentally produced premature systolic arhythmia (pulsus bigeminus) in rabbits. III. Pathway of the arhythmia impulse, 1931, 96: 243.

An experimentally produced premature systolic arhythmia (pulsus bigeminus) in rabbits. IV. Effective areas in the brain, 1931, 98: 344.

An experimentally produced premature systolic arrythmia (pulsus bigeminus) in rabbits. V. Factors that affect its onset, duration, arrest and alteration, 1933, 103: 559.

Olfactory and trigeminal conditioned reflexes in dogs, 1937, 118: 532.

Studies on the depressor-cardiac reflex after vagotomy, 1935, 110: 602.

Studies on the level of anesthesia for the olfactory and trigeminal respiratory reflexes in dogs and rabbits, 1936, 115: 579.

ALLEN, W. M. Physiology of the corpus luteum: V. The preparation and some chemical properties of progestin, a hormone of the corpus luteum which produces progestational proliferation, 1930, 92: 174.

Physiology of the corpus luteum: VI. The production of progestational proliferation of the endometrium of the immature rabbit by progestin (an extract of the corpus luteum) after preliminary treatment with oestrin, 1930, 92: 612.

Physiology of the corpus luteum: VIII. Interrelationship of oestrin and the corpus luteum as determined by their effects in the adult rabbit, 1932, 100: 650.

ALLEN, W. M. and R. K. MEYER. The quantitative separation of progestin from oestrin in extracts of the corpus luteum, 1933, 106: 55.

ALLEN, W. M. and S. R. N. REYNOLDS. The inhibition in vivo of oestrous motility of the uterus in unanesthetized rabbits by crystalline progestin, 1935, 113: 2.

ALLEN, W. M. See HECKEL and ALLEN, 1936, 116: 73.

See HECKEL and ALLEN, 1937, 119: 300.

See Makepeace, Corner and Allen, 1936, 115: 376.

See REYNOLDS and ALLEN, 1932, 101: 86. See REYNOLDS and ALLEN, 1932, 102: 39.

ALLERS, W. D. and E. C. KENDALL. Maintenance of adrenalectomized dogs without cortin, through control of the mineral constituents of the diet, 1937, 118: 87.

ALLEY, A. See BABKIN, STAVRAKY and ALLEN, 1932, 101: 2.

ALLWEISS, D. See Soskin and Allweiss, 1933, 105: 89.

See Soskin and Allweiss, 1934, 109: 101.

See Soskin and Allweiss, 1934, 110: 4.

See Soskin, Allweiss and Cohn, 1934, 109: 155.

ALONGE, A. See Jackson and Alonge, 1934, 109: 447.

ALPERT, L. See GORDON, ALVING, KRETZSCHMAR and ALPERT, 1937, 119: 483.

ALT, H. L. See Anderson and ALT, 1937, 119: 67.

ALTSHULER, S. S. See WERCH and ALTSHULER, 1937, 118: 659.

ALVAREZ, W. C. and M. F. BENNETT. Inquiries into the structure and function of the myenteric plexus. I. Differences in the reaction of the muscle and nerves of the bowel to constant and interrupted currents, 1931, 99: 179.

ALVAREZ, W. C. and K. HOSOI. Conduction in different parts of the small intestine. I. Distance traversed by a disturbance and rate of travel, 1930, 94: 448.

ALVAREZ, W. C. See Berkson, Baldes and Alvarez, 1932, 102: 683.

ALVING, A. See Van Slyke, Rhoads, Hiller and Alving, 1934, 110: 387.

ALVING, A. S. See GORDON, ALVING, KRETZSCHMAR and ALPERT, 1937, 119: 483. See Rhoads, Alving, Hiller and Van Slyke, 1934, 109: 329.

See RHOADS, VAN SLYKE, HILLER and ALVING, 1934, 110: 392.

See Van Slyke, Rhoads, Hiller and Alving, 1934, 109: 336.

AMBERSON, W. R., J. FLEXNER, D. R. PANKRATZ, F. R. STEGGERDA and A. G. MULDER. Hemoglobin-Ringer as a mammalian perfusion medium, 1933, 105: 2.

AMBERSON, W. R., A. PARPART and G. SANDERS. An analysis of the low-voltage elements of the action-potential wave in nerve, 1931, 97: 154.

AMBERSON, W. R., J. STANBURY and E. WARWEG. Total plasmapheresis, 1936, 116: 1.

AMBERSON, W. R. See Etteldorf, Mitchell and Amberson, 1937, 120: 451. See Mulder, Amberson, Steggerda and Flexner, 1933, 105: 74. See Stanbury, Warweg and Amberson, 1936, 117: 230.

ANDERSCH, M., B. B. CLARK and R. B. GIBSON. Levulose tolerance curves in renal diabetics, 1934, 109: 2.

ANDERSCH, M. See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, MacCalmont, Sharpe and Cortell, 1937, 119: 306.

ANDERSEN, D. H., M. R. PREST and J. VICTOR. Metabolic changes in liver, kidney and anterior hypophysis of pregnant, parturient and lactating rats, 1937, 119: 445.

ANDERSEN, D. H. See Victor and Andersen, 1936, 115: 130.

See Victor and Andersen, 1937, **120**: 154. See Victor, Andersen and Prest, 1936, **115**: 121.

ANDERSON, E. M. and J. B. COLLIP. Serum inhibitory to the thyreotropic hormone, 1934, 109: 2.

ANDERSON, E. M. and H. M. EVANS. Marked thyroid hyperplasia without change in respiratory metabolism by the treatment of hypophysectomized rats with thyreotropic hormone, 1937, 119: 260.

The effect of thyreotropic hormone combined with small amounts of iodine upon the function of the thyroid gland, 1937, 120: 597.

ANDERSON, E. M. See Pugsley and Anderson, 1934, 109: 85.

ANDERSON, F. F. A new smooth-muscle bath, 1937, 119: 260.

ANDERSON, I. A. See Buell, Anderson and Strauss, 1936, 116: 274.

ANDERSON, O. D. See Liddell and Anderson, 1931, 97: 539.

See Liddell, Anderson, Kotyuka and Hartman, 1935, 113: 87.

Sec Liddell, Sutherland, Parmenter, Curtis and Anderson, 1937, 119: 361

ANDERSON, R. K. and H. L. ALT. The effect of thyrotropic pituitary hormone on the oxygen consumption of thyroid tissue in vitro, 1937, 119: 67.

ANDERSON, W. E. and A. H. SMITH. Further observations of rapid growth of the albino rat, 1932, 100: 511.

- ANDES, E. J. and H. H. BEARD. The effect of inorganic iron with and without ultraviolet radiation upon the prevention and cure of nutritional anemia, 1934, 108:91.
- ANDES, E. J. See BEARD and ANDES, 1934, 109: 316.

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- ANDREW, B. J. See Moore, Plymate and Andrew, 1932, 102: 581, 598.
 See Moore, Plymate, Andrew and White, 1932, 102: 566, 573.
- ANDREW, W. The effects of fatigue due to muscular exercise on the Purkinje cells of the mouse at various ages, 1937, 119: 260.
- ANDREWS, E. See LIVINGSTONE, ANDREWS and ADAMS, 1931, 97: 588
- ANDREWS, J. C., C. G. JOHNSTON and K. C. ANDREWS. The absorption of cystine, methionine and cysteic acid from intestinal loops of dogs, 1936, 115: 188.
- ANDREWS, K. C. See Andrews, Johnston and Andrews, 1936, 115: 188.
- ANDRUS, E. C. See McEachern and Andrus, 1930, 93: 673.
- ANGEVINE, M. See Landis, Jones, Angevine and Erb, 1932, 101: 67
- ANSON, B. J. See Kabat, Anson and Magoun, 1935, 113: 74.
- See Kabat, Anson, Magoun and Ranson, 1935, 112: 214.

 ANTHONY, A. J., A. E. COHN and J. M. STEELE, JR. Studies of the influence of pulmonary motion and stention on movements of the thorax. I. Chemical and nervous factors in red in establishing appea. II. The relation between pulmonary and thorac is movements, 1932, 102: 167.
- APPELROT, S. Hypervitaminosis D and blood pressure in dogs, 1933, 105: 294.
 Pilocarpine and insulin secretion, 1934, 137: 526.
 - Sex and seasonal variations in excitability of the cardio-inhibitory mechanism of frogs and toads, 1930, 95: 242.
- APPELROT, S. and A. J. CARLSON. The influence of the vago-sympathetic nerves on the ventriculo-aortic tonus in the turtle, 1930, 95: 56.
- APPERLY, F. L. and M. K. CARY. The chloride and alkali content of the duodenal secretions and their relation to gastric acidity and emptying time, 1936, 116: 337.
- ARING, C. D. Shivering and the cerebral cortex, 1935, 113: 3.
- ARNY, F. P. See Greisheimer and Arny, 1931, 97: 526.
- See Greisheimer and Arny, 1932, 101: 45.
- ARONSON, L. See Spiegel and Aronson, 1934, 109: 693.
- ASDELL, S. A. The effect of the injection of hypophyseal extract in advanced lactation, 1932, 100: 137.
- ASDELL, S. A. and J. HAMMOND. The effects of prolonging the life of the corpus luteum in the rabbit by hysterectomy, 1933, 103: 600.
- ASDELL, S. A. and G. W. SALISBURY. The cause of mammary development during pseudopregnancy in the rabbit, 1933, 103: 595.
- ASHCRAFT, D. W. The correlative activities of the alimentary canal of the fowl, 1930, 93: 105.
 - The effects of feeding varied rations upon the hydrogen ion concentration of the intestinal contents of the domestic fowl, 1932, 101: 2.
- ASHER, L. and W. E. GARREY. Some conditions affecting the responses of Limulus heart to artificial and natural stimulation, 1930, 94: 619.
- ASHKENAZ, D. M. An experimental analysis of centripetal visceral pathways based upon the viscero-pannicular reflex, 1937, 120: 587.
- ASHKENAZ, D. M. and E. A. SPIEGEL. The viscero-pannicular reflex, 1935, 112: 573.

ASHMAN, R. and W. E. GARREY. Excitability of the turtle auricle during vagus stimulation, 1931, 98: 109.

ASHMAN, R. and J. L. GOUAUX. A slow parasystolic focus with exit-blocking, 1937, 119: 261.

ASHMAN, R. and R. HAFKESBRING. Unidirectional block in heart muscle, 1929, 91: 65.

ASHMAN, R. See Garrey and Ashman, 1931, 98: 102.

See Hafkesbring and Ashman, 1932, 100: 89.

ATKINS, J. A. See Greene and Atkins, 1931, 97: 526.

ATKINSON, A. J. and A. C. IVY. The action of histaminase on the gastric secretory response to histamine and to a meal, 1934, 107: 168.

ATKINSON, A. J. See Culmer and Atkinson, 1937, 119: 293.

ATWELL, W. J. Effects of administering adenotropic extract to hypophysectomized and thyroidectomized tadpoles, 1937, 118: 452.

AUB, J. C. See FITZHUGH, MILLER, TAYLOR and AUB, 1931, 97: 142.

AUSTIN, J. H. See Johnston, Ravdin, Austin and Morrison, 1932, 99: 648.

See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1931, 97: 553.

See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1932, 99: 638.

See RAVDIN, JOHNSTON, RIEGEL, AUSTIN and WRIGHT, 1932, 101: 86.

See SUNDERMAN and AUSTIN, 1936, 117: 474.

AUSTIN, R. and W. J. MEEK. Visceral reflexes from surface stimulation, 1930, 93: 629.

AYDELOTTE, B. F. See BARBOUR and AYDELOTTE, 1933, 104: 127.

See Marshall and Aydelotte, 1931, 97: 544.

See Marshall, Aydelotte and Barbour, 1931, 98: 615.

AYRES, G. B. and M. LEE. Nitrogen partition of tissues after hypophysectomy and composition of weight loss, 1936, 116: 2.

B

BABKIN, B. P. and M. H. FRIEDMAN. The relation of the autonomic nervous system to the motility and secretion of the stomach in Elasmobranchs, 1934, 109: 2.

BABKIN, B. P. and M. E. MacKAY. Concerning the motor mechanism of the salivary glands, 1930, 91: 370.

BABKIN, B. P., G. W. STAVRAKY and A. ALLEY. Humoral transmission of chorda tympani hormone, 1932, 101: 2.

BABKIN, B. P. See VINEBERG and BABKIN, 1931, 97: 69.

BACHEM, A. The ultra-violet transparency of the various layers of human skin, 1929, 91:58.

BACHEM, A. and C. I. REED. The penetration of light through human skin, 1931, 97:86.

The straight and diffused penetration of ultra-violet light into the human skin, 1930, 93: 629.

BACHHUBER, E. A. See HERRIN, RABIN and BACHHUBER, 1936, 115: 113.

BACHMAN, C., H. SELYE, D. L. THOMSON and J. B. COLLIP. Antigonadotropic substances, 1935, 113: 3.

BACHMAN, C. See Kutz, Selye, Denstedt, Bachman, Thomson and Collip, 1934, 109: 66.

BACHMANN, G. and J. HALDI. The effect of glucose and fructose separately and in combination on the respiratory exchange and some urinary constituents, at rest, 1935, 113: 3. BACHMANN, G., J. HALDI, W. WYNN and C. ENSOR. The respiratory quotient and carbohydrate metabolism following the ingestion of glucose and of fructose as affected by exercise taken immediately and thirty minutes after ingestion, 1937, 120: 579.

The respiratory quotient and carbohydrate utilization as affected by exercise taken immediately and thirty minutes after the ingestion of glucose and of fructose, 1937, 119: 262.

BACHMANN, G. See HALDI and BACHMANN, 1935, 113: 58.

See Haldi and Bachmann, 1936, 115: 364.

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See Haldi, Bachmann, Ensor and Wynn, 1937, 119: 323.

BACHRACH, W. H., W. B. BRADLEY and A. C. IVY. Effect on epinephrine administration on glucose excretion in deparcreatized dogs, 1936, 116: 2.
Effect of epinephrine on glucose excretion in fasted deparcreatized dogs, 1936, 117: 203.

BACHRACH, W. H. and S. J. FOGELSON. Rôle of the upper gastrointestinal tract in the etiology of pernicious anemia, 1937, 119: 262.

BACON, C. M. See BAKER, BACON, LUNDY and KLEIN, 1930, 93: 630.

BACQ, Z. M. Impotence of the male rodent after sympathetic denervation of the genital organs, 1931, 96: 321.

The action of abdominal sympathectomy on the growth of the albino rat and the weight of the genital organs, 1930, 95: 601.

The effect of sympathectomy on sexual functions, lactation, and the maternal behavior of the albino rat. With a description of the technique of sympathectomy in the rat, 1932, 99: 444.

BACQ, Z. M. and S. DWORKIN. Regeneration of fibres of the sympathicoadrenal system, 1930, 93: 629.

The action of parathyroid extract in sympathectomized animals, 1930, 95: 614. The heart rate after sympathectomy and vagotomy and the blood sugar as affected by posterior hypophyseal extracts (pitressin and pitocin), 1930, 95: 605.

BACQ, Z. M. and A. ROSENBLUETH. The action of calcium and potassium ions on the nictitating membrane, the adrenal medulla and the non-pregnant uterus of the cat, 1934, 108: 46.

BACQ, Z. M. See Cannon and Bacq, 1931, 96: 392.

See DWORKIN, BACQ and DILL, 1931, 96: 308.

See LEE and BACQ, 1933, 103: 637.

See RING, DWORKIN and BACQ, 1931, 97: 315.

BAETJER, A. M. Relation of potassium to the contractions of mammalian skeletal muscle and its similarity to the effect of sympathetic stimulation, 1934, 109:3.
The diffusion of potassium from resting skeletal muscles following a reduction

in the blood supply, 1935, 112: 139.

The effect of a reduction in the blood flow through skeletal muscles on the potassium content of the venous blood plasma, 1935, 113: 4.

The effect of diets high and low in calcium and phosphorus on the heart rhythm of young rats, 1936, 116: 3.

The effect of potassium (and calcium) on the contractions of mammalian skeletal muscle, 1935, 112: 147.

The relation of the sympathetic nervous system to the contractions and fatigue of skeletal muscle in mammals, 1930, 93: 41.

BAETJER, A. M. and C. H. McDONALD. The relation of the sodium, potassium and calcium ions to the heart rhythmicity, 1932, 99: 666. BAGNO, S. See BARNETT and BAGNO, 1936, 114: 366.

BAHRS, A. M. The effect of adding liver to the diet upon the growth and reproduction of rats, 1933, 105: 262.

BAIMA, D. and H. N. ETS. The effects of calcium chloride, acid and alkali, upon conduction in nerves locally cooled, 1934, 109: 4.

BAIMA, D. See BOYD and BAIMA, 1935, 113: 15.

BAIRD, P. C., JR., E. CLONEY and F. ALBRIGHT. Effect of cortical hormone in preventing extreme drop in colonic temperature displayed by hypophysectomized rats upon exposure to cold with preliminary observations upon the effect of hypophyseal and other hormones, 1933, 104: 489.

BAKER, H. L., C. M. BACON, C. J. LUNDY and D. KLEIN. The physiological action of an acid extract of normal thyroid glands with low iodine content,

1930, 93: 630.

BALDES, E. J. Micromethod of measuring osmotic pressure, 1935, 113: 5.

BALDÉS, E. J., H. E. ESSEX and J. MARKOWITZ. The physiologic action of rattlesnake venom (crotalin). X. Influence of crotalin on the viscosity of blood, 1931, 97: 26.

BALDES, E. J. and L. E. DANIELS. Measurements on the pressure of spinal fluid, 1931, 97: 502.

BALDES, E. J. and J. F. HERRICK. A direct current thermostromuhr, 1937, 119: 263.

Analysis of the Rein thermostromuhr method of measuring blood flow, 1937, 119:263.

BALDES, E. J., J. F. HERRICK and H. E. ESSEX. The effect of lumbar sympathectomy on the flow of blood in the femoral artery of the dog, 1932, 101: 3.

BALDES, E. J. and J. R. LEARMONTH. Studies in chronaxie. I. Apparatus and theoretical considerations, 1930, 93: 631.

BALDES, E. J. and K. K. NYGAARD. Studies on the coagulability of blood and blood plasma using a photoelectric cell, 1936, 116: 3.

BALDES, E. J. See BERKSON, BALDES and ALVAREZ, 1932, 102: 683.

See Corbeille and Baldes, 1930, 91: 505.

See Essex, Herrick, Baldes and Mann, 1935, 113: 39.

See Essex, Herrick, Baldes and Mann, 1936, 116: 43.

See Essex, Herrick, Baldes and Mann, 1936, 117: 271.

See Essex, Herrick, Baldes and Mann, 1937, 119: 303.

See Essex, Herrick, Mann and Baldes, 1933, 105: 31.

See Essex, Herrick, Mann and Baldes, 1934, 109: 33.

See Herrick, Baldes and Stedgwick, 1937, 119: 333.

See Herrick, Essex and Baldes, 1932, 99: 696.

See Herrick, Essex and Baldes, 1932, 101: 213.

See HERRICK, ESSEX and BALDES, 1933, 103: 592.

See Herrick, Essex, Baldes and Mann, 1935, 113: 61.

See Herrick, Essex, Baldes and Mann, 1936, 116: 74.

See Herrick, Essex, Mann and Baldes, 1933, 105: 434.

See HERRICK, ESSEX, MANN and BALDES, 1934, 108: 621.

See Herrick, Mann, Essex and Baldes, 1934, 109: 52. See Johnson, Seeley, Baldes and Essex, 1935, 113: 72.

BALDRIDGE, C. W. and R. W. GERARD. The extra respiration of phagocytosis, 1933. 103: 235.

BALDWIN, F. M. See ESCOBAR and BALDWIN, 1934, 107: 249.

BALL, H. A. See Samuels, Schott and Ball, 1937, 120: 649.

BALL, J. Demonstration of a quantitative relation between stimulus and response in pseudopregnancy in the rat, 1934, 107: 698.

BANTA, R. See RALLI, FLAUM and BANTA, 1935, 110: 545.

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BANTING, F. G. and S. GAIRNS. The antitryptic properties of blood serum, 1930, 94: 241.

BANTING, F. G. See Ettinger, Hall and Banting, 1936, 116: 44.

BANUS, M. G. and E. GINSBURG. Changes in the blood associated with fever induced by killed B. coli, 1931, 97: 502.

Changes in the blood associated with fever induced by killed B. coli, 1932, 101: 106.

BANUS, M. G., L. N. KATZ and J. W. MULL. Observations on the rôle of tissues in maintaining the acid-base equilibrium of the blood. III. Further studies on the hind-leg preparation, 1929, 91: 150.

BANUS, M. G. and A. ZETLIN. The laws determining the relation of isometric tension to length in skeletal muscle, 1937, 119: 264.

BANUS, M. G., A. ZETLIN and D. H. GERSH. The relation of total tension in isometric muscular contraction to initial tension and length of the muscle, 1936, 116: 4.

BARACH, A. L. The action of oxygen in counteracting alcoholic intoxication, 1934, 107: 610.

BARBEAU, A. See Forbes, Barbeau and Rice, 1931, 98: 484.

BARBER, D. See PACK and BARBER, 1930, 92: 271.

BARBOUR, H. G. Localization of body vapor pressure reflexes to environmental temperature in the infundibular portion of the hypothalamus, 1934, 109: 4.

BARBOUR, H. G. and B. F. AYDELOTTE. Heat regulation and water exchange. XVI. Anhydremia with liver hydration of neurogenic origin, 1933, 104: 127.

BARBOUR, H. G. and A. GILMAN. Heat regulation and water exchange. XVIII. The subservience of vapor pressure homeostasis to temperature homeostasis, 1934, 107:70.

BARBOUR, H. G. and F. JELSMA. Vasomotor changes induced by the direct application of heat or cold to the medulla, 1931, 97: 503.

BARBOUR, H. G. and J. TRACE. Standard metabolism in the white mouse, 1937, 118: 77

BARBOUR, H. G. See GILMAN and BARBOUR, 1933, 104: 392.

See HEMINGWAY and BARBOUR, 1937, 119: 332.

See Marshall, Aydelotte and Barbour, 1931, 98: 615.

BARCROFT, J. See QUIGLEY, BARCROFT, ADAIR and GOODMAN, 1937, 119: 763.

BARD, P. Factors producing high heart rates during decorticate sham rage in the cat, 1930, 93: 631.

Oestrual behavior in surviving decorticate cats, 1936, 116: 4.

Some postural deficiencies following certain cortical ablations, 1931, 97: 503.

The effects of denervation of the genitalia on the oestrual behavior of cats, 1935, 113:5.

BARD, P., C. M. BROOKS and T. LOWRY. Cerebral localization of "hopping" and "placing" reactions in cats, rats and alligators, 1932, 101: 3.

BARD, P., C. M. BROOKS and C. N. WOOLSEY. Decorticate and decerebrate rigidities in the cat, 1934, 109: 5.

BARD, P. and O. ORIAS. Localized cortical management of visual and labyrinthine placing reactions, 1933, 105: 2. BARD, P. See MARSHALL, WOOLSEY and BARD, 1937, 119: 372.

See Pinkston, Bard and Rioch, 1934, 109: 515.

See Root and BARD, 1937, 119: 392.

See ROSENBLUETH and BARD, 1932, 100: 537.

See Woolsey and BARD, 1936, 116: 165.

BARELARE, B. See RICHTER, HOLT and BARELARE, 1937, 119: 388.

BAERNSTEIN, H. D. See HELLEBRANDT, BAERNSTEIN and HOOPES, 1934, 107: 370.

BARKER, S. See GOLDFARB, BARKER and HIMWICH, 1934, 109: 41.

BARKER, S. B. Determination of acetone in the expired air, 1936, 116:5.

BARKER, S. B., J. P. CHANDLER and W. H. CHAMBERS. Prolonged fasting in the normal and departreatized dog, 1937, 119: 265.

BARKER, S. B., J. F. FAZIKAS and H. E. HIMWICH. A study of subcutaneous absorption in the adrenalectomized rat, 1934, 110: 153.

Metabolic aspects of thyroid-adrenal interrelationship, 1936, 115: 415.

BARKER, S. B. See Chambers, Chandler and Barker, 1936, 116: 26. See Himwich, Fazikas. Barker and Hurlburt, 1934, 110: 348.

See PHILLIPS and BARKER, 1937, 119: 383.

BARLOW, O. W. The influence of beef muscle, beef liver and liver extract on the anemia of fasting and of rice disease in pigeons, 1930, 91: 429.

The influence of bicarbonate and phosphate buffers and of CO₂ on the functional activity of the perfused frog heart, 1929, 91: 47.

The influence of inorganic iron on the anemia of rice disease in pigeons, 1930, 93:

The influence of vitamin B on the inanition, anemia and bacteriemia of rice disease in pigeons, 1930, 93: 161.

BARNARD, R. D. See HEIDGEN and BARNARD, 1931, 98: 276.
See REED and BARNARD, 1930, 93: 146.

BARNES, B. O. The effects of the endocrine glands on carbohydrate metabolism, 1934, 109: 5.

The excretion of iodine in experimental hyperthyroidism, 1932, 101:4.

The excretion of iodine in experimental hyperthyroidism, 1933, 103: 699.

The feather germ test for thyroid hormone, 1933, 105:3.

The influence of posterior pituitary extracts on experimental diabetes, 1935, 113:6.

The physiological activity of iodine in thyroglobulin, 1932, 101: 583.

BARNES, B. O. and J. G. BUENO. Some observations on dogs following the administration of pregnant mare's serum, 1935, 113: 6.

Studies on thyroglobulin. II. Absorption of thyroglobulin and related substances from the alimentary canal, 1933, 103: 570.

The influence of thyroglobulin on basal metabolism, 1935, 113:7.

BARNES, B. O., J. G. BUENO and M. JONES. The physiological activity of the thyroid gland, 1934, 109: 5.

BARNES, B. O., A. J. CARLSON and A. M. RISKIN. Studies on thyroglobulin. I. The digestibility of thyroglobulin, 1931, 98: 86.

BARNES, B. O. and T. H. CHANG. Further studies on the excretion of iodine in experimental hyperthyroidism, 1933, 105: 3.

BARNES, B. O., W. L. CULPEPPER and J. H. HUTTON. Experimental diabetes treated by x-ray applied to the pituitary and adrenal regions, 1935, 113: 7.

BARNES, B. O. and A. S. DIX. On the mechanism of the susceptibility to insulin in hypophysectomized dogs, 1936, 116: 6.

BARNES, B. O. and A. FOGELBERG. Parathyroid tetany in the albino rat, 1933, 105: 3.

BARNES, B. O. and H. M. FOWLER. Implantation of dog pituitaries into immature rats, 1935, 113: 8.

BARNES, B. O. and M. JONES. Studies on thyroglobulin. III. The thyroglobulin content of the thyroid gland, 1933, 105: 556.

BARNES, B. O. and J. F. REGAN. Hypophysectomized and pancreatectomized dog, 1933, 105: 4.

BARNES, B. O., J. F. REGAN and J. G. BUENO. Is there a specific diuretic hormone in the anterior pituitary, 1933, 105: 559.

BARNES, B. O. See Bueno and Barnes, 1933, 105: 15.

See Bueno, Barnes and Rogoff, 1935, 113: 21.

See FERRILL, ROGOFF and BARNES, 1935, 113: 41.

See FERRILL, ROGOFF, BARNES and SCOTT, 1934, 109: 35.

See Fogelberg, Barnes and Hanson, 1933, 105: 34.

See Jones and Barnes, 1933, 105: 58.

See JUHN and BARNES, 1931, 98: 463.

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See Mathieu and Barnes, 1932, 101: 75.

See Mathieu and Barnes, 1933, 105: 172.

See McLean, Barnes and Hastings, 1935, 113: 141.

See Quigley and Barnes, 1930, 93: 682.

See Quigley and Barnes, 1930, 95: 7.

See REGAN and BARNES, 1933, 105: 83.

See ROGOFF, BARNES, SCOTT and FERRILL, 1934, 109: 89.

See Scott, Ferrill, Rogoff and Barnes, 1934, 109: 95.

BARNES, R. H. and E. M. MacKAY. The maltase activity of the blood serum of various species, 1936, 114: 534.

BARNES, R. H. See MacKay and Barnes, 1937, 118: 184, 525.

See Mackay, Bergman and Barnes, 1935, 112: 591.

BARNES, T. C. Responses in the isolated limbs of Crustacea and associated nervous discharges, 1932, 99: 321.

The significance of fibre diameter in the sensory nerves of the crustacean limb, 1932, 100:481.

The validity of the "all-or-none" law in the peripheral nervous system of Crustacea, 1934, 107: 447.

BARNETT, A. and S. BAGNO. The physiological mechanisms involved in the clinical measure of phase angle, 1936, 114: 366.

BARON, H. and R. CHAMBERS. A micromanipulative study on the migration of blood cells in frog capillaries, 1936, 114: 700.

BARR, D. P. See LOEBEL, HIMWICH and BARR, 1930, 93: 667.

BARR, J. S. See Wearn, Ernstene, Bromer, Barr, German and Zschiesche, 1934, 109: 236.

BARRERA, S. E. See GUTTMAN and BARRERA, 1934, 109: 704.

See GUTTMAN and BARRERA, 1937, 120: 666.

See Northington and Barrera, 1937, 120: 703.

BARRERA, S. E. and A. FERRARO. The effects of lesions of various parts of the vestibular system in macacus rhesus, 1937, 119: 266.

BARRIS, R. W. Cataleptic symptoms following bilateral cortical lesions in cats, 1937, 119: 213.

Deficiencies in the righting reflexes of cats following bilateral cortical lesions, 1937, 120: 225.

BARRIS, R. W. and W. R. INGRAM. The effect of experimental hypothalamic lesions upon blood sugar, 1936, 114: 555.

BARRIS, R. W. See INGRAM and BARRIS, 1936, 114: 562.

See INGRAM, FISHER and BARRIS, 1934, 109: 57.

See WALLER and BARRIS, 1937, 120: 144.

BARRON, D. H. A comparison of the time relations of muscles supplied by normal and by regenerated nerves, 1933, 103: 651.

BARRON, E. S. G. See KEYS, HALL and BARRON, 1936, 115: 292.

BARRON, L. See FETTER, BARRON and CARLSON, 1932, 101: 605.

BARRON, L. E. Reflex salivary response in dehydontion, 1932, 100: 559.

BARRON, L. E. and G. M. CURTIS. The influence of cholecystectomy and hernior-rhaphy on gastric motility in man, 1937, 119: 266.

The late effects of bilateral resection of the splanchnic nerves on the human gastric motor mechanism, 1937, 120: 356.

BARRON, L. E., G. M. CURTIS and W. T. HAVERFIELD. The effect of splanchnic section on gastric motility in man, 1935, 113: 8.

The effect of vagotomy on gastric motility in man, 1936, 116: 6.

BARRON, L. E. See Curtis and Barron, 1934, 109: 26.

BARRY, F. S. The rôle of water and chlorides in the production of edema in nephrectomized dogs, 1932, 101: 5.

See Ivy and BARRY, 1932, 99: 298.

BARTLEY, S. H. Action potentials of the optic cortex under the influence of strychnine, 1933, 103: 203.

Analysis of the cortical response to stimulation of the optic nerve, 1932, 101: 4. A comparison of the electrogram of the optic cortex with that of the retina, 1936, 117: 338.

Relation of intensity and duration of brief retinal stimulation by light to the electrical response of the optic cortex of the rabbit, 1934, 108: 397.

Some observations on the organization of the retinal response, 1937, 120: 184.

Temporal and spatial summation of peripheral impulses with activity of the brain, 1936, 116: 8.

The time of occurrence of the cortical response as determined by the area of the stimulus object, 1935, 110: 666.

BARTLEY, S. H. and G. H. BISHOP. Factors determining the form of the electrical response from the optic cortex of the rabbit, 1933, 103: 173.

The cortical response to stimulation of the optic nerve in the rabbit, 1933, 103: 159.

BARTLEY, S. H. and E. B. NEWMAN. Studies on the dog's cortex. I. The sensorimotor areas, 1931, 99: 1.

BARTLEY, S. H., J. O'LEARY and G. H. BISHOP. Differentiation by strychnine of the visual from the integrating mechanisms of optic cortex in the rabbit, 1937, 120: 604.

BARTLEY, S. H. See FRY and BARTLEY, 1935, 111: 335.

See FRY and BARTLEY, 1935, 112: 414.

BARTOLI, A. J., J. L. COHEN and H. C. STRUCK. A study of the total acid soluble phosphorus in skeletal muscle of rats, 1937, 119: 267.

BARTTER, F. C. See Heim, Thomson and Bartter, 1935, 113: 548.

BARTZ, J. P. and F. O. SCHMITT. Carotene and associated pigments in medullated nerve, 1936, 117: 280.

BASS, G. See GARREY and BASS, 1937, 119: 314.

BASSIN, A. L. See CLARKE, BASSIN and SMITH, 1936, 115: 556.

BAST, T. H. See EYSTER, BAST and KRASNO, 1935, 113: 40.
See EYSTER, BAST and KRASNO, 1937, 119: 305.

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BATCHELDER, E. L. Nutritional significance of vitamin A throughout the life cycle, 1934, 109: 430.

BATES, R. W., E. L. LAHR and O. RIDDLE. The gross action of prolactin and follicle-stimulating hormone on the mature ovary and sex accessories of the fowl, 1935, 111: 361.

BATES, R. W., O. RIDDLE and E. L. LAHR. An assay of three hormones present in anterior pituitaries of seven types of cattle classified for age, sex and stage of reproduction, 1935, 113: 259.

Concurrent assay of three hormones from anterior pituitaries of seven age and sex groups of cattle, 1935, 113: 8.

Racial variation in the crop-gland response of doves and pigeons to prolactin, 1936, 116: 7.

The mechanism of the anti-gonad action of prolactin in adult pigeons, 1937, 119: 610.

BATES, R. W., O. RIDDLE, E. L. LAHR and J. P. SCHOOLEY. Aspects of splanch-nomegaly associated with the action of prolactin, 1937, 119: 603.

BATES, R. W. See LAHR, RIDDLE and BATES, 1935, 113: 84.

See LAHR, RIDDLE and BATES, 1936, 116: 94.

See RIDDLE, BATES and DYKSHORN, 1933, 105: 191.

See RIDDLE, BATES and LAHR, 1935, 111: 352.

See RIDDLE, BATES, LAHR and MORAN, 1936, 116: 128.

See RIDDLE, LAHR and BATES, 1935, 113: 109, 110.

BAUM, O. S. and G. PINCUS. On the interaction of oestrin and the ovary-stimulating principles of extracts of the urine of pregnancy, 1932, 102: 241.

BAUMBERGER, P. and R. K. SKOW. Further studies of the relation of the degree of reduction of intracellular cytochrome to the oxidation-reduction potential of cell suspensions, 1936, 116: 8.

BAXTER, H. Further studies on the composition of saliva in different phases of the secretion, 1931, 97: 450.

The composition of the saliva in different phases of the secretion and by repeated stimulation, 1929, 91: 132.

The influence of section of the cervical sympathetic nerve and extirpation of the superior cervical ganglion on the composition of the parotid saliva in the dog, 1931. 97: 668.

BAXTER, S. G. Continuous pancreatic secretion in the rabbit, 1931, 96: 343. Nervous control of the pancreatic secretion in the rabbit, 1931, 96: 349.

See MacKay and Baxter, 1931, 97: 543.

See Mackay and Baxter, 1931, 98: 42.

BAY, E. B. See McLean, Bay and Hastings, 1933, 105:72.

BAYNE, T. L. See Liddell, Sutherland, Parmenter and Bayne, 1936, 116:95.

BAZETT, H. C. Further experiments on chronic decerebrate cats, 1932, 101:5.
The determination in man of end systolic, lateral systolic, dierotic and diasystolic pressures by a modified Riva Rocci method, 1932, 101:5.

BAZETT, H. C., F. S. COTTON, L. B. LAPLACE and J. C. SCOTT. The calculation of cardiac output and effective peripheral resistance from blood pressure measurements, 1935, 113: 312.

Estimation of cardiac output from blood pressure measurements, 1934, 109: 6.

BAZETT, H. C., S. GOLDSCHMIDT, B. McGLONE and L. SRIBYATTA. Polkilothermic changes in man and their effect on respiratory exchange, 1937, 119: 268. BAZETT, H. C. and L. B. LAPLACE. Estimation of lateral arterial pressure by the Riva Rocci method, 1934, 109: 7.

Studies on the indirect measurement of blood pressure: I. Sources of error in the Riva Rocci method, 1933, 103: 48.

Studies on the indirect measurement of blood pressure: II. A three-bag system for measurement of blood pressure in man, 1933, 103: 321.

BAZETT, H. C., L. B. LAPLACE and J. C. SCOTT. The pressure changes induced in the vascular system as the result of compression of a limb and their effect on the indirect measurement of lateral pressures, 1935, 112: 182.

BAZETT, H. C. and B. McGLONE. Experiments on the mechanism of stimulation of end-organs for cold, 1930, 93: 632.

Modification of the latency of warmth sensations by interference through paradoxical stimulation of cold end-organs, 1931, 97: 504.

BAZETT, H. C., J. C. SCOTT, M. E. MAXFIELD and M. D. BLITHE. Calculation of cardiac output from blood pressure measurements before and after meals, 1936, 116: 551.

Effect of baths at different temperatures on oxygen exchange and on the circulation, 1937, 119: 93.

Effect of temperature changes on the circulation, 1935, 113: 9.

Observations on the effects of meals on cardiac output estimated by blood pressure changes and by acetylene, 1936, 116: 9.

BAZETT, H. C. See BURTON and BAZETT, 1936, 116: 21.

See Burton and Bazett, 1936, 117: 36.

See LAPLACE and BAZETT, 1932, 101: 68.

See Scott, Bazett, Maxfield and Blithe, 1935, 113: 118.

See Sumwalt, Erb and Bazett, 1935, 112: 386.

BEAMAN, G. B., JR. and H. DAVIS. Block of the spinal cord produced by cold, 1931, 98: 399.

BEAN, J. W. Alteration in the response of mammalian muscle to electrical stimulation of nerve as a result of changes in pressure, 1935, 113: 10.

An attempt to use chronaxie as a measure of excitability, 1934, 107: 275.

Periodic ventilation as induced by exposure to high pressures of oxygen, 1932, 100: 192.

BEAN, J. W. and J. HALDI. Alterations in blood lactic acid as a result of exposure to high oxygen pressure, 1932, 102: 439.

Alterations in blood lactic acid as a result of exposure to high pressures of oxygen, 1932, 101: 6.

BEAN, J. W. and G. ROTTSCHAFER. The mode and site of action of oxygen at increased barometric pressures on the mammalian organism, 1937, 119: 268.

BEAR, R. S., F. O. SCHMITT and J. Z. YOUNG. On the properties of neuronin, the principal protein complex of neuroplasm, 1937, 119: 269.

BEAR, R. S. See FOURT, BEAR and SCHMITT, 1935, 113: 44.

See Schmitt and Bear, 1935, 113: 116. See Schmitt and Bear, 1936, 116: 139.

See SCHMITT, BEAR and YOUNG, 1937, 119: 398.

BEARD, H. H. and E. J. ANDES. The effect of iron with and without other elements upon the production of polycythemia, 1934, 109: 316.

BEARD, H. H. and T. S. BOGGESS. A comparison of the anemia produced by feeding young rats upon human, cow and goat milk, 1935, 113: 642.

A comparison of oral administration versus intraperitoneal injection of colloidal iron upon blood regeneration in nutritional anemia of the rat, 1937, 118: 211.

BEARD, H. H. and T. S. BOGGESS.

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Further observations upon the origin of creatine from proteins and amino acids, 1935, 113: 647.

BEARD, H. H. and V. C. MYERS. Studies in the nutritional anemia of the rat. IX. Observations on the anemia of pregnancy, 1933, 106: 449.

BEARD, H. H. See ANDES and BEARD, 1934, 108: 91.

See POMERENE and BEARD, 1930, 92: 282.

BEATTY, S. R. See MEYER, SEEVERS and BEATTY, 1935, 113: 166.

BEAZELL, J. M. Ketosis in normal and Eck fistula dogs, 1935, 113: 10.

BEAZELL, J. M. and C. R. SCHMIDT. The effect of orally administered malt amylase on the digestion of starch, 1936, 116: 10.

BEAZELL, J. M., C. R. SCHMIDT and A. C. IVY. The effect of heat on blood and lymph flow from the gastro-intestinal tract, 1937, 119: 197.

BEAZELL, J. M. See Schmidt, Beazell and Ivy, 1937, 119: 398.

BECK, C. S. and W. V. COX. The effect of pericardiostomy upon the mechanics of the circulation, 1930, 93: 632.

BECK, F. F. See CARR and BECK, 1937, 119: 589.

BECK, L. V. See CHAMBERS, BELKIN and BECK, 1934, 109: 19.

BECKER, T. J. See Kunde, Becker, Saruk and Kearney, 1934, 109: 65.

BEHANAN, K. T. See MILES and BEHANAN, 1934, 109: 74.

BEHNKE, A. R., H. S. FORBES and E. P. MOTLEY. Circulatory and visual effects of oxygen at 3 atmospheres pressure, 1936, 114: 436.

BEHNKE, A. R., F. S. JOHNSON, J. R. POPPEN and E. P. MOTLEY. The effect of oxygen on man at pressures from 1 to 4 atmospheres, 1935, 110: 565.

BEHNKE, A. R., L. A. SHAW, A. C. MESSER, R. M. THOMSON and E. P. MOTLEY. The circulatory and respiratory disturbances of acute compressed-air illness and the administration of oxygen as a therapeutic measure, 1936, 114: 526.

BEHNKE, A. R., L. A. SHAW, C. W. SHILLING, R. M. THOMSON and A. C. MESSER. Studies on the effects of high oxygen pressure. I. Effects of high oxygen pressure upon the carbon-dioxide and oxygen content, the acidity, and the carbon-dioxide combining power of the blood, 1934, 107: 13.

BEHNKE, A. R., R. M. THOMSON and E. P. MOTLEY. The psychologic effects from breathing air at 4 atmospheres pressure, 1935, 112: 554.

BEHNKE, A. R., R. M. THOMSON and L. A. SHAW. The rate of elimination of dissolved nitrogen in man in relation to the fat and water content of the body, 1935, 114: 137.

BEHNKE, A. R. See SHAW and BEHNKE, 1934, 109: 96.

See Shaw, Behnke and Messer, 1934, 108: 652.

See Shaw, Behnke, Messer, Thomson and Motley, 1935, 112: 545.

See Shilling, Thomson, Behnke, Shaw and Messer, 1934, 107: 29. BEHRMANN, V. G. See Brassfield and Behrmann, 1936, 116: 14.

See Brassfield and Behrmann, 1937, 119: 276.

BELKIN, M. See CHAMBERS, BELKIN and BECK, 1934, 109: 19.

BELLIS, C. J. See Medes and Bellis, 1934, 107: 227. See Rundquist and Bellis, 1933, 106: 670.

BELNIAK, L. J. and H. N. ETS. The effects of magnesium on the production of acetylcholine by motor nerve stimulation, 1937, 119: 270.

BENAGLIA, A. E. See Bodo and BENAGLIA, 1936, 116: 12.

See Bodo, Benaglia and Friedman, 1933, 105: 8.

See Bodo, CoTui, Benaglia and Friedman, 1934, 109: 12.

BENDER, M. B. Fright and drug contractions in denervated facial and ocular muscles, 1937, 119: 270.

BENEDICT, F. G. Degree of constancy in human basal metabolism, 1935, 110: 521.
BENEDICT, F. G. and E. L. FOX. Protein and energy metabolism of wild and albino rats during prolonged fasting, 1934, 108: 285.

BENEDICT, F. G. and J. M. PETRIK. Metabolism studies on the white rat, 1930, 94:662.

BENEDICT, F. G. See Mason and Benedict, 1934, 108: 377.

See RIDDLE, CHRISTMAN and BENEDICT, 1930, 95: 111.

See RIDDLE, NUSSMANN and BENEDICT, 1932, 101: 251.

See RIDDLE, SMITH and BENEDICT, 1932, 101: 88, 260.

See RIDDLE, SMITH and BENEDICT, 1933, 105: 428.

See RIDDLE, SMITH and BENEDICT, 1934, 107: 333.

See SHATTUCK and BENEDICT, 1931, 96: 518.

See Steggerda and Benedict, 1932, **100**: 274. See Turner and Benedict, 1935, **113**: 291.

BENNETT, A. L. A synchronous motor electric time clock, 1937, 119: 271.

BENNETT, A. L. and E. U. STILL. An improved method of measuring blood flow, 1933, 105: 4.

A study of the relation of pancreatic duct pressure to the rate of blood flow through the pancreas, 1933, 106: 454.

BENNETT, A. L. See Still, Bennett and Scott, 1933, 105: 91.

See Still, Bennett and Scott, 1933, 106: 509.

BENNETT, L. L. See RUSSELL and BENNETT, 1937, 118: 196.

BENNETT, M. F. See ALVAREZ and BENNETT, 1931, 99: 179.

BENSON, E. B. Evidence of sympathetic influence on anterior lymph hearts in rana pipiens, 1934, 109: 7.

BERG, B. N. A study of the islands of Langerhans in vivo with observation on the circulation, 1930, 95: 186.

BERG, B. N. and T. F. ZUCKER. Blood sugar recovery from insulin hypoglycemia after section of the splanchnic nerves, 1937, 120: 435.

BERG, B. N. See Heim and Berg, 1933, 105: 674.

See Zucker and Berg, 1937, 119: 531, 549.

See Zucker, Newburger and Berg, 1932, 102: 193, 209.

BERGMAN, H. C. See DRURY, BERGMAN and GREELEY, 1936, 117: 323.

See MacKay, Bergman and Barnes, 1935, 112: 591. See MacKay, Bergman and MacKay, 1937, 120: 83.

BERGMEYER, J. See Talbert, Saiki, Borman, Thompson, Rudser and Berg-Meyer, 1930, 93: 692.

See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

BERKMAN, J. See Pincus and Berkman, 1937, 119: 455.

BERKSON, J. Electromyographic studies of the gastro-intestinal tract: further inquiries into the origin of potential variations of the intestine by means of certain drugs, 1933, 105: 5.

Electromyographic studies of the gastro-intestinal tract: III. Observations on excised intestine, 1933, 104: 62.

Electromyographic studies of the gastro-intestinal tract: IV. An inquiry into the origin of the potential variations of rhythmic contraction in the intestine; evidence in disfavor of muscle action currents, 1933, 104: 67.

Electromyographic studies of the gastro-intestinal tract: V. Further inquiries

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into the origin of potential variations of the small intestine by means of certain drugs, 1933, 105: 450.

Electromyographic studies of the gastro-intestinal tract: VI. Recovery of characteristic electropotential variations of the small intestine following application of nicotine, by restoration of circulation, 1933, 105: 454.

BERKSON, J., E. J. BALDES and W. C. ALVAREZ. Electromyographic studies of the gastro-intestinal tract. I. The correlation between mechanical movement and changes in electrical potential during rhythmic contraction of the intestine, 1932, 102:683.

BERKSON, J. and W. M. BOOTHBY. Studies of the energy of metabolism of normal individuals. A comparison of the estimation of basal metabolism from (1) a linear formula and (2) "surface area," 1936, 116: 485.

The variability of the energy of metabolism in normal individuals, 1937, 119: 271. The variability of the energy of metabolism in normal persons, 1936, 116: 10.

BERKSON, J., W. M. BOOTHBY and H. L. DUNN. A statistical evaluation of the linear vs. the exponential (surface area) method of predicting metabolism, 1935, 113: 11.

BERKSON, J. See BOOTHBY, BERKSON and DUNN, 1936, 116: 468.

See BOOTHBY, DUNN and BERKSON, 1935, 113: 14.

See Higgins, Berkson and Flock, 1933, 105: 177. See Higgins, Berkson and Flock, 1932, 102: 673.

See NYGAARD, WILDER and BERKSON, 1935, 114: 128

BERLIN, D. D. See Blumgart and Berlin, 1934, **109**: 11. **BERMAN, T. M.** See Boyden and Berman, 1937, **119**: 275.

BERNDT, A. L. and I. S. RAVDIN. The effect of histamine on jejunal secretion, 1934, 109: 587.

BERNHEIM, F. Action of acetylcholine on the intestine, 1933, 104: 433.

BERNHART, F. See Hemingway and Bernhart, 1935, 113: 61. See Hemingway, Collins and Bernhart, 1936, 117: 102.

BERNHEIM, F. and M. L. C. BERNHEIM. Oxidation of acetylcholine by tissues, 1933, 104: 438.

BERNHEIM, F. and B. H. BLOCKSOM, JR. Action of epinephrine on the intestine following stimulation by parasympathetic drugs, 1932, 100: 313.

BERNHEIM, M. L. C. See BERNHEIM and BERNHEIM, 1933, 104: 438.

BERNSTEIN, S. The relation between summation and inhibition in a spinal reflex, 1937, 120: 798.

BERNTHAL, T. Changes in peripheral blood flow accompanying localized exposure of carotid sinus region to low O₂ and high CO₂, 1934, 109:8.

BERNTHAL, T. and J. C. SHOEMAKER. Peripheral vasomotor effects of CO₂ locally applied, 1937, 119: 272.

BERNTHAL, T. G. Changes in heart rate accompanying exposure of the carotid gland region to lowered blood oxygen tensions, 1936, 116: 10.

Changes in volume flow of blood resulting from chemical stimulation of the carotid sinus, 1932, 101: 6.

Effects of central injections of chemical agents upon peripheral blood flow, 1933, 105:6.

Some observations upon changes in volume flow of blood accompanying changing respiratory conditions, 1930, 95: 446.

See Gesell, Krueger, Gorham and Bernthal, 1930, 94: 300, 339, 365, 387, 402, 427.

BERRILL, N. J. See TAIT and BERRILL, 1936, 116: 153.

BESSEY, O. A. See Ellis and Bessey, 1935, 113: 582.

BEST, C. H., A. CHARLES and C. COWAN. The administration of heparin, 1937, 119: 272.

BEST, C. H., C. M. JEPHCOTT and D. A. SCOTT. Insulin in tissues other than pancreas, 1932, 100: 285.

BEST, C. H., J. M. HERSHEY and M. E. HUNTSMAN. The control of the deposition of liver fat, 1932, 101:7.

BEST, C. H., M. E. HUNTSMAN, J. H. RIDOUT and F. G. YOUNG. The effects of diets low in choline on normal rats and depancreatized dogs, 1935, 113: 11.

BEST, C. H. and E. W. McHENRY. The inactivation of histamine, 1930, 93: 633. BEST, C. H. and J. H. RIDOUT. Cholesterol feeding and liver fat, 1933, 105: 6.

BEST, C. H. See DE PENCIER, SOSKIN and BEST, 1930, 94: 548.

See PROCTER and BEST, 1931, 97: 552.

See Procter and Best, 1932, 100: 506.

See Welch, Irving and Best, 1935, 113: 136.

BEUTNER, R. The average valence of the gelatin ion determined by means of a modified theory of membrane equilibrium, 1930, 93: 634.

BEUTNER, R. and M. CAPLAN. The formation of free HCl from NaCl in the stomach and in vitro, 1932, 101:8.

BEUTNER, R. and B. E. CAYWOOD. Basophilic or acidophilic staining of a dye as determined by an in vitro test, 1930, 93:634.

BEUTNER, R., M. L., MILLER and **W. M. LOEHR.** Donnan equilibrium between nucleus and cytoplasm; the importance of this equilibrium for drug resorption, 1933, 105: 6.

BEUTNER, R. and J. J. PRUSMACK. The cause of action currents: a direct effect of the metabolic products independent of permeability changes, 1934, 109: 8.

BEUTNER, R., J. J. PRUSMACK and N. EPSTEIN. New experiments pleading against the pore theory of Michaelis, 1934, 109: 9.

BEYNON, L. H. Is copper essential for iron utilization, 1937, 120: 423.

BIEBER, I. and J. F. FULTON. The relation of forced grasping and groping to the righting reflexes, 1933, 105: 7.

BIEBL, M., H. E. ESSEX and F. C. MANN. Studies on the physiology of the liver. XXIII. The rôle of the liver in the destruction or inactivation of nicotine, 1932, 100: 167.

BIESTER, A. See Leichsenring, Biester, Hönig, Furnas, Foss and Routt, 1932, 99: 391.

BIETER, R. N. The effect of the splanchnics upon glomerular blood flow in the frog's kidney, 1930, 91: 436.

The reabsorptive function of the tubule of the frog's kidney, 1930, 93: 574. The secretion pressure of the aglomerular kidney, 1931, 97: 66.

BIETER, R. N. and **A. D. HIRSCHFELDER.** The rôle of the glomeruli as the preferential route for excretion of phenolsulphonephthalein in the frog's kidney, 1929, **91**: 178.

BIETER, R. N. and F. H. SCOTT. Blood pressure and plasma protein determinations in the same frog, 1929, 91: 265.

BIGURIA, F. and A. CANZANELLI. The effect of continued oral administration of histaminase and pancreatin on gastric secretion, 1934, 110: 243.

BING, F. C. and L. B. MENDEL. The relationship between food and water intakes in mice, 1931, 98: 169.

BING, F. R. See Quigley, Einsel, Bing and Hanzal, 1936, 116: 124.

BINGER, M. W., F. W. GAARDE and J. MARKOWITZ. A study of bronchial reflexes in the guinea pig, 1931, 96: 647.

BINGER, M. W. See Keith, Osterberg and Binger, 1937, 119: 347.

BINNS, D. See MUNTWYLER and BINNS, 1934, 108: 80.

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BIRCH, C. L. and E. A. BOYDEN. Reaction of gall-bladder to stimulation of gastrointestinal tract. II. Response to faradic excitation of stomach, small intestine and cecum, 1930, 92: 301.

BIRCH, C. L. See BOYDEN and BIRCH, 1930, 92: 287.

BIRGE, G. P. See Sherwood, Birge, Depp and Dotson, 1937, 119: 403.

BISCHOFF, F. Histone combinations of the protein hormones, 1936, 117: 182.

Some physical and physiologic properties of the system insulin-tannic acid, 1936, 116: 239.

The influence of divided dosage of gonadotropic extracts in the immature male rat, 1936, 114: 483.

BISCHOFF, F. and L. M. JEMTEGAARD. Divided dosage of insulin, 1937, 119: 149.

BISCHOFF, F. and M. L. LONG. Depletion of muscle sugar by adrenalin. II, 1930, 95: 403.

The posterior pituitary hormone in metabolism. I. The effect of pitressin upon the carbohydrate reserves of the normal rabbit, 1931, 97: 215.

The posterior pituitary hormone in metabolism. II. The effect of pitressin and pituitrin upon the carbohydrate reserves of adrenalectomized rabbits, 1931, 99: 253.

BISCHOFF, F. See Long, Hill and Bischoff, 1932, 102: 402. See Maxwell and Bischoff, 1935, 112: 172.

BISHOP, F. W. See NASSET, BISHOP and WARREN, 1931, 96: 439.

BISHOP, G. H. Certain time-relations of the visual pathway, 1932, 101: 8.
Cyclic changes in excitability of the optic pathway of the rabbit, 1933, 103: 213.
Correlation between time values and tension in skeletal muscle, 1930, 93: 635.
Fiber groups in the optic nerve, 1933, 106: 460.

Polarization and action potential in nerve, 1931, 97: 504.

BISHOP, G. H. and J. J. BRONFENBRENNER. The site of action of botulinus toxin, 1936, 117: 393.

BISHOP, G. H. and P. HEINBECKER. A functional analysis of the cervical sympathetic nerve supply to the eye, 1932, 100: 519.

Differentiation of axon types in visceral nerves by means of the potential record, 1930, **94:** 170.

The afferent functions of non-myelinated or "C" fibers, 1935, 114: 179.

BISHOP, G. H., P. HEINBECKER and J. L. O'LEARY. The function of the non-myelinated fibers of the dorsal roots, 1933, 106: 647.

The significance of frequency, number of impulses and fiber size in vasomotor responses to vagus and depressor nerve stimulation in the rabbit, 1934, 109: 409.

BISHOP, G. H. and J. O'LEARY. Components of the electrical response of the optic cortex of the rabbit, 1936, 117: 292.

BISHOP, G. H. See Bartley and Bishop, 1933, 103: 159, 173.

See Bartley, O'Leary and Bishop, 1937, 120: 604.

See Douglass, Davenport, Heinbecker and Bishop, 1934, 110: 165.

See Gelfan and Bishop, 1932, 101: 37, 678.

See Gelfan and Bishop, 1933, 103: 237.

See GILSON and BISHOP, 1934, 109: 40.

BISHOP, G. H.

See GILSON and BISHOP, 1937, 118: 743.

See Heinbecker and Bishop, 1931, 96: 613.

See Heinbecker and Bishop, 1935, 114: 212.

See Heinbecker, O'Leary and Bishop, 1933, 104: 23.

See O'LEARY and BISHOP, 1936, 116: 115.

See O'LEARY, HEINBECKER and BISHOP, 1934, 109: 274.

See O'LEARY, HEINBECKER and BISHOP, 1935, 110: 636.

BIXBY, E. M. See Schlossberg, Sawyer and Bixby, 1933, 104: 190.

BLACK, J. A. See MACHT and BLACK, 1932, 101: 71.

BLACK, L. J. See COVELL and BLACK, 1936, 116: 524.

BLACK, P. T. Metabolic rates of eatfish treated with thyreotropic hormone, 1934, 109: 10.

BLACK, P. T., J. B. COLLIP and D. L. THOMSON. Further studies on the ketogenic hormone of the anterior pituitary, 1935, 113: 12.

BLACKBERG, S. N. See HESS and BLACKBERG, 1932, 102: 8.

See HRUBETZ and BLACKBERG, 1937, 120: 222.

BLAIR, E. A. and J. ERLANGER. A comparison of the characteristics of axons through their individual electrical responses, 1933, 106: 524.

Irritability studies on individual axons, 1933, 105: 8.

Observations on the development of electrical excitation in nerve, 1935, 113: 12. On excitation and depression in axons at the cathode of the constant current, 1936, 114: 317.

On the effects of polarization of nerve fibers by extrinsic action potentials, 1932, 101: 9, 559.

On the process of excitation by brief shocks in axons, 1936, 114: 309.

Temporal summation in peripheral nerve fibers, 1936, 117: 355.

BLAIR, E. A. See ERLANGER and BLAIR, 1931, 97: 519.

See ERLANGER and BLAIR, 1931, 99: 108, 129.

See Erlanger and Blair, 1933, 106: 565.

See Erlanger and Blair, 1934, 109: 32.

See ERLANGER and BLAIR, 1934, 110: 287.

See Erlanger and Blair, 1936, 114: 328.

See King, Blair and Garrey, 1931, 97: 329.

BLAIR, H. A. Latent addition in muscle and nerve, 1936, 116: 11.

On addition of local excitatory processes, 1934, 109: 10.

On the relation of direct currents to linearly rising currents as stimuli, 1935, 111:

On the use of Lapicque's factor for converting voltage-capacity to strength-duration curves, 1936, **114**: 620.

The equation of the voltage-capacity curve for the excitation of the sciatic nerve of Rana pipiens, 1935, 112: 277.

The stimulation of the sciatic nerve of the frog by means of condenser charges, 1933, 105:8.

The time-intensity curve and latent addition in the mechanical stimulation of nerve, 1936, 114: 586.

BLAIR, R. K. See PORTER and BLAIR, 1937, 119: 386.

BLAKE, H. Brain potentials and depth of sleep, 1937, 119: 273.

BLAKE, H. and R. W. GERARD. Brain potentials during sleep, 1937, 119: 692.

BLALOCK, A. Observation upon the blood flow through skeletal muscle by the use of the hot wire anemometer, 1930, 95: 554. BLALOCK, A. and S. E. LEVY. The effect of hemorrhage, intestinal trauma and histamine on the partition of the blood stream, 1937, 118: 734.

BLALOCK, A. and M. F. MASON. Observations on the blood flow and gaseous metabolism of the liver of unanesthetized dogs, 1936, 117: 328.

BLALOCK, A. See Bradburn and Blalock, 1929, 91: 115.

See LEVY and BLALOCK, 1937, 118: 368.

See Mason, Blalock and Harrison, 1937, 118: 667.

BLANCHARD, E. W. See WENNER and BLANCHARD, 1930, 91: 563.

BLAND, L. J. See Allen, Pratt, Newell and Bland, 1930, 92: 127.

BLIER, Z. Physiology of the sphenopalatine ganglion, 1930, 93: 398.

BLIER, Z. A. and N. KLEITMAN. Conditions affecting the linguo-maxillary reflex, 1930, 94: 118.

BLITHE, M. D. See BAZETT, SCOTT, MAXFIELD and BLITHE, 1935, 113: 9.

See Bazett, Scott, Maxfield and Blithe, 1936, 116: 9, 551.

See Bazett, Scott, Maxfield and Blithe, 1937, 119: 93.

See Scott, Bazett, Maxfield and Blithe, 1935, 113: 118.

BLOCKSOM, B. H., JR., C. B. HUGGINS and H. WILSON. Thermal changes in mechanical and chemical obstruction to the circulation of the extremity, 1935, 113: 12.

BLOCKSOM, B. H., JR. See BERNHEIM and BLOCKSOM, 1932, 100: 313.

See Huggins and Blocksom, 1935, 113: 68.

See Huggins, Blocksom and Noonan, 1936, 115: 395.

See Huggins, Noonan and Blocksom, 1936, 116: 83.

BLOOD, R. Defective development of the cerebellum in the dog, 1937, 119: 274.
See Stoland, Greer and Blood, 1937, 119: 110.

BLUM, H. F. and C. R. SPEALMAN. A differentiation between photosensitized and ultra-violet effects on frogs, 1934, 109: 605.

BLUM, H. F. and R. J. WEST. Physiological studies of a condition of abnormal photosensitivity in man, 1936, 116: 12.

BLUM, H. F., W. G. WATROUS and R. J. WEST. On the mechanism of photosensitization in man, 1935, 113: 350.

BLUMGART, H. L. and D. D. BERLIN. The importance of decreased cardiac work in the relief of angina pectoris by total ablation of the thyroid, 1934, 109:11.

BOCK, A. V. See DILL, BOCK and EDWARDS, 1933, 104: 36.

BODINE, J. H. and E. J. BOELL. The action of carbon monoxide on the respiration of normal and blocked embryonic cells (Orthoptera), 1934, 109: 11.

BODO, R. C. and A. E. BENAGLIA. The effect of sympathin on blood sugar, 1936, 116: 12.

BODO, R. C., A. E. BENAGLIA and M. M. FRIEDMAN. The relationship of epinephrine to muscle and liver glycogen, 1933, 105: 8.

BODO, R. C., F. W. CoTUI, A. E. BENAGLIA and M. M. FRIEDMAN. Liver glycogen changes in fed and fasted animals before and after abdominal denervation, 1934, 109: 12.

BODO, R. C., F. CoTUI and L. FARBER. Liver glycogen storage in diabetic animals, 1933, 103: 18.

The relation of insulin to liver glycogen, 1932, 101: 10.

BODO, R. C. and I. NEUWIRTH. The relation of insulin to liver glycogen, 1933, 103: 5.

BOELL, E. J. and A. B. TAYLOR. The effect of carbamates on the electric potential of frog skin, 1932, 101: 10.

BOELL, E. J. See BODINE and BOELL, 1934, 109: 11.

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BOGGESS, T. S. See BEARD and BOGGESS, 1935, 113: 642, 647.

See BEARD and BOGGESS, 1937, 118: 211.

BOHNING, A., K. JOCHIM and L. N. KATZ. The Thebesian vessels as a source of nourishment for the myocardium, 1933, 106: 183.

BOHNING, A. See Jochim, Bohning, Rottersman and Gralnick, 1935, 113: 71. See Katz, Jochim and Bohning, 1934, 109: 61.

See Katz, Jochim and Bohning, 1936, 116: 88.

See Weinstein, Jochim and Bohning, 1935, 113: 136.

BOHSTEDT, G. See LAMB, PHILLIPS, HART and BOHSTEDT, 1933, 106: 350.

See Phillips, Lamb, Hart and Bohstedt, 1933, 106: 356.

BOLDYREFF, E. B. and J. F. STEWART. Some observations on glycemia in tur-

tles, 1932, 101: 11.

BOLDYREFF, E. B. Contribution to the histophysiology of the pancreas. Effect of insulin on acinar tissue, 1933, 105: 9.

New data concerning acidity of gastric juice, 1931, 97: 505.

On hyperglycemic effect of tobacco smoking, 1935, 113: 13.

BOLDYREFF, W. N. Gastric and intestinal mucus—its properties and physiological importance, 1935, 113: 13.

Natural dry digestive juices, their properties and use in laboratory and clinic, 1934, 109: 12.

Periodical passage of air from the stomach into the intestine (in fasting state, in man and animals), 1931, 97: 505.

Some new data in the physiology of blood. II. Physiological etiology of anemia produced by pancreatic juice, 1930, 93: 636.

The acidity of gastric juice. Factors determining it and the history of the problem, 1933, 105: 9.

BOLDYREFF, W. N., N. O. BYLAND and W. F. MARTIN. A permanent closeable pancreatic fistula,—a description of the operation and some new experimental data. 1936. 116: 13.

BOLDYREFF, W. N., W. B. LEWIS and C. E. STEWART. Further experiments on dried natural digestive juices, 1937, 119: 274.

BOLDYREFF, W. N. See STEWART and BOLDYREFF, 1932, 101: 96.

See Stewart and Boldyreff, 1932, 102: 276.

BOLLENS, W. F. See Templeton, Bollens, Lawson, Lutz, Borkon and Galapeaux, 1936, 116: 153.

BOLLMAN, J. L. and F. C. MANN. Lactic acid utilization following complete removal of the liver, 1932, 101: 12.

Studies on the physiology of the liver. XVIII. The effect of removal of the liver on the formation of ammonia, 1930, 92: 92.

Studies on the physiology of the liver. XXV. Allantoin and uric acid following total removal of the liver, 1933, 104: 242.

The influence of the liver in the formation and destruction of bile salts, 1936, 116: 214.

The physiology of the liver, XIX. The utilization of fructose following complete removal of the liver, 1931, 96: 683.

Utilization of various carbohydrates by the depancreatized animal, 1934, 107: 183.

BOLLMAN, J. L., F. C. MANN and M. H. POWER. The utilization of galactose following complete removal of the liver, 1935, 111: 483.

BOLLMAN, J. L. See BOOTHBY, ADAMS and BOLLMAN, 1934, 109: 13.

See Mann and Bollman, 1930, 93: 671.

See Mann and Bollman, 1933, 103: 45.

BOLLMAN, J. L.

See Pollack, Flock and Bollman, 1934, 109: 84

See Pollack, Flock and Bollman, 1934, 110: 105.

See Pollack, Flock, Essex and Bollman, 1934, 110: 97.

See Pollack, Flock, Mason, Essex and Bollman, 1934, 110: 102.

See Pollack, Millet, Essex, Mann and Bollman, 1934, 110: 117

See WILHELMJ, BOLLMAN and MANN, 1930, 93: 698.

See Wilhelmi, Bollman and Mann, 1931, 98: 1.

BONETA, H. See Sherwood, Wilson and Boneta, 1937, 120: 671.

BOOHER, L. E. and G. H. HANSMANN. Vitamin G concentrates as preventives against blacktongue, 1936, 114: 429.

BOOHER, W. T. See Crisler, Booher, van Liere and Hall, 1933, 103: 68.

See Crisler, van Liere and Booher, 1932, 102: 629.

BOONE, E. S. See Patterson and Boone, 1931, 97: 548.

BOOTH, W. See GEMMILL, BOOTH, DETRICK and SCHIEBEL, 1931, 96: 265.

See GEMMILL, BOOTH and POCOCK, 1930, 92: 253.

BOOTHBY, W. M. and M. ADAMS. The occurrence of citric acid in urine and body fluids, 1934, 107: 471.

BOOTHBY, W. M., M. ADAMS and J. L. BOLLMAN. The influence of infection with slight elevation of temperature on the nitrogen balance, 1934, 109: 13.

BOOTHBY, W. M., J. BERKSON and H. L. DUNN. Studies of the energy of metabolism of normal individuals: a standard for basal metabolism with a nomogram for clinical application, 1936, 116: 468.

BOOTHBY, W. M., H. L. DUNN and J. BERKSON. A clinical standard for metabolic heat production, 1935, 113: 14.

BOOTHBY, W. M. and C. M. WILHELMJ. Comparison of the effect of single intravenous injections of thyroxine before and after thyroidectomy, 1931, 97: 506.

BOOTHBY, W. M. See Adams, Boothby and Snell, 1936, 114: 383.

See Adams, Power and Boothby, 1935, 111: 596.

See Adams, Power and Boothby, 1937, 118: 562.

See Berkson and Boothby, 1936, 116: 10, 485.

See Berkson and Boothby, 1937, 119: 271.

See Berkson, Boothby and Dunn, 1935, 113: 11.

See Dunn and Boothby, 1932, 101: 30.

See Sandiford, Wheeler and Boothby, 1931, 96: 191.

See WILHELMJ and BOOTHBY, 1930, 92: 568.

BORKON, E. L. and R. D. TEMPLETON. The influence of oil enemas on colon motility in the dog, 1937, 118: 775.

BORKON, E. L., R. D. TEMPLETON and H. C. LAWSON. The motility of the dog's colon following ileostomy, 1935, 113: 14.

BORKON, E. L. See ADLER, BORKON and TEMPLETON, 1937, 119: 258.

See GALAPEAUX, BORKON and TEMPLETON, 1936, 116: 55.

See Genitis, Borkon and Templeton, 1935, 113: 48.

See Templeton, Bollens, Lawson, Lutz, Borkon and Galapeaux, 1936, 116: 153.

BORMAN, C. See Talbert, Saiki, Borman, Thompson, Rudser and Bergmeyer, 1930, 93: 692.

See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

BORMAN, M. C. See HANEY and BORMAN, 1933, 105: 44. See HANEY, BORMAN and MEEK, 1933, 106: 64.

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BOTT, P. A. See Elsom, Bott and Shiels, 1936, 115: 548.

See Elsom, Bott and Walker, 1937, 118: 739.

See RICHARDS, WESTFALL and BOTT, 1936, 116: 128.

See Swingle, Priffner, Vars, Bott and Parkins, 1933, 105: 93.

BOUCKAERT, J. J. Massage of the thyroid gland and rate of denervated heart in the dog, 1930, 95: 427.

BOUCKAERT, J. J. and E. SOLOMON. Beta-tetra-hydro-naphthylamine hyperthermia and fat metabolism, 1930, 95: 417.

BOUCKAERT, J. J. See HEYMANS, BOUCKAERT, FARBER and HSU, 1936, 117: 619.

BOURDILLON, J. Distribution in body fluids and excretion of ingested ammonium chloride, potassium chloride and sodium chloride, 1937, 120: 411.

BOURNE, W. See DWORKIN, BOURNE and RAGINSKY, 1936, 116: 40.

BOURNS, T. L., E. S. NASSET and R. A. HETTIG. On the adaptive secretion of the glands of the jejunum, 1936, 116: 563.

BOURQUIN, H. Studies on diabetes insipidus. IV, 1931, 96: 66.

BOUTEN, V. See Steggerda and Bouten, 1937, 119: 409.

BOWERS, L. M. See SHERWOOD and BOWERS, 1936, 115: 645.

BOWIE, M. A. See Powers, Bowie and Howard, 1930, 92: 665.

See Powers, Pilcher and Bowie, 1931, 97: 405.

BOWMAN, H., J. F. REGAN and E. U. STILL. The effect of intravenous injections of amino acids on the motility of the stomach in normal and fasting dogs, 1935, 112: 438.

BOYD, E. M. and M.-D. FELLOWS. Blood lipids during pregnancy in guinea pigs, 1936, 114: 635.

BOYD, T. E. Recovery of the tongue from curare paralysis, following prolonged stimulation of the hypoglossal nerve, 1932, 100: 569.

Return of indirect excitability in curarized preparations, following tetanization of the motor nerve, 1932, 101: 12.

The influence of motor nerve "fatigue" on the removal of a curare block by physostigmin, 1931, 97: 507.

BOYD, T. E. and D. BAIMA. The influence of temperature on the vagal inhibitory mechanism of the turtle heart, 1935, 113: 15.

BOYD, T. E. and H. N. ETS. Conditions influencing the conductivity of frog nerve at low temperatures, 1933, 105: 10.

Studies on cold block in nerve. I. Block with and without freezing, 1934, 107:

BOYD, T. E. and R. W. GERARD. The effect of prolonged activity on the irritability of medullated nerve, 1930, 92: 656.

BOYD, T. E. and C. J. HILLENBRAND. Reflex effects from brief stimulation of the vagus at different stages of the respiratory cycle, 1937, 119: 274.

BOYD, T. E. and I. F. HUMMON, JR. Reversible and non-reversible freezing block in frog nerve, 1934, 109: 14.

BOYD, T. E. See BROSNAN and BOYD, 1937, 119: 281.

See Coyle and Boyd, 1932, 99: 317.

See ETS and BOYD, 1933, 105: 31.

See ETS and BOYD, 1934, 108: 129.

See HILLENBRAND and BOYD, 1936, 116: 75, 380.

See Hummon and Boyd, 1934, 109: 57.

See Hummon and Boyd, 1935, 114: 85.

See Russell and Boyd, 1932, 99: 424.

See Zwikster and Boyd, 1935, 113: 560.

See ZWIKSTRA and BOYD, 1935, 113: 139.

BOYD, W. C. See Rowe and Boyd, 1931, 97: 556.

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BOYDEN, E. A. Species differences in the reactions of the mammalian gall bladder, 1933, 105: 11.

BOYDEN, E. A. and T. M. BERMAN. The rate of emptying of the gall bladder in patients with gastric and duodenal ulcers, 1937, 119: 275.

BOYDEN, E. A. and C. L. BIRCH. Reaction of gall bladder to stimulation of gastrointestinal tract. I. Response to substances injected into the duodenum, 1930, 92: 287.

BOYDEN, E. A. and R. A. SCHWEGLER. The sphincter of Oddi in the dog, 1936, 116: 14.

BOYDEN, E. A. See BIRCH and BOYDEN, 1930, 92: 301.

BOYKIN, J. T. See GARREY and BOYKIN, 1933, 105: 35.

See Garrey and Boykin, 1934, 109: 286.

See Garrey and Boykin, 1935, 111: 196, 649.

BOYLE, R. W. See Steinhaus, Boyle and Jenkins, 1932, 99: 503.

BOYNTON, E. P. and M. HINES. On the question of threshold in stimulation of the motor cortex, 1933, 106: 175.

BOZLER, E. Effect of dorsal root stimulation on the properties of the muscles of blood vessels, 1935, 113: 16.

Influence of adrenalin on the resting heat production of isolated skeletal muscle, 1933, 105: 11.

The analysis of the initial heat in smooth muscle, 1932, 101: 13.

The birefringence of muscle, 1937, 119: 275.

The mechanism of the inhibitory action of vasodilator nerves, 1936, 117: 457.

The variation of electrical resistance of muscle during contraction, 1934, 109: 14.

BRACKETT, F. S. See Hamilton and Brackett, 1935, 112: 130.

BRADBURN, H. B. and A. BLALOCK. The relationship of changes in bloodflow through an extremity to (1) changes in temperature of tissues, (2) differences in oxygen content of the arterial and venous blood, and (3) cardiac output, 1929, 91: 115.

BRADLEY, J. D. See MULLENIX, DRAGSTEDT and BRADLEY, 1933, 105: 443.

BRADLEY, W. B. See BACHRACH, BRADLEY and IVY, 1936, 116: 2.

See Bachrach, Bradley and Ivy, 1936, 117: 203.

See Bussabarger, Bradley and Lederer, 1937, 119: 284.

See Gray, Bradley and Ivy, 1937, 118: 463.

BRADSHAW, H. H. See LINDSKOG and BRADSHAW, 1934, 108: 581.

BRAMS, W. A. and L. N. KATZ. Studies on the overdistended heart. I. Effects of venesection, 1931, 98: 556.

BRAMS, W. A., L. N. KATZ and L. KOHN. The effect of abdominal distention and release on the blood pressures in the arteries and veins, 1933, 104: 120.

BRAMS, W. A. See KATZ and BRAMS, 1931, 97: 535.

See Katz and Brams, 1931, 98: 569.

BRASSFIELD, C. See Gesell, Krueger, Nicholson, Brassfield and Pelecovich, 1932, 100: 202, 227.

BRASSFIELD, C. R. Comparison of changes in the pH of arterial blood and saliva during variations of pulmonary ventilation, 1935, 113: 16.

Comparison of changes in the pH of arterial blood and saliva during variations of pulmonary ventilation, 1936, 116: 174.

BRASSFIELD, C. R. and V. G. BEHRMANN. A correlation of the pH of arterial blood and urine, as produced by changes in pulmonary ventilation and by chemical injection, 1937, 119: 276.

Comparison of the buffering power of saliva obtained under chorda tympani stimulation with that obtained with pilocarpine, 1936, 116: 14. BRAUCHER, P. F. See RIDDLE and BRAUCHER, 1931, 97: 617.

See RIDDLE and BRAUCHER, 1934, 107: 343.

See RIDDLE and BRAUCHER, 1934, 108: 554.

BRAUN, G. See HELLEBRANDT, BRAUN and TEPPER, 1937, 119: 331.

BREWER, G. The erythrocyte reaction of the dog to cobalt, 1937, 118: 207.

BREWER, G., W. F. HAMILTON and I. BROTMAN. Analysis of the pulse contour in relation to sound production by means of the hydrogen transmission pulserecorder, 1934, 107: 420.

Pressure pulse contours in the intact animal. II. Femoral pressure pulses in the normal dog and in the dog with a rtic regurgitation; effect of certain drugs, 1934, 107: 436.

BREWER, G. See Hamilton, Brewer and Brotman, 1933, 105: 43, 44.

See Hamilton, Brewer and Brotman, 1934, 107: 427.

See Hamilton, Brewer and Brotman, 1934, 109: 47.

See Hamilton, Brotman and Brewer, 1934, 107: 414.

See Hamilton, Brotman and Brewer, 1934, 109: 47.

BREWER, N., D. S. BRYANT and A. B. LUCKHARDT. Reflex closure of the glottis by stimulation of afferent (visceral) nerves, 1934, 109: 14.

BREWER, N. and F. A. RIES. A study of the secretory pressure of the liver, 1933, 106: 247.

BREWER, N. See Davis and Brewer, 1935, 113: 586.

BREWER, N. R. Blood pressure responses to acute carbon monoxide poisoning, 1937, 120: 91.

BREZIN, D. See Nicholson and Brezin, 1935, 113: 102.

See Nicholson and Brezin, 1937, 118: 441.

BRICKER, J. See GESELL, BRICKER and MAGEE, 1935, 113: 48.

See GESELL, BRICKER and MAGEE, 1936, 117: 423.

See Gesell, Culver, Bricker and Magee, 1935, 113: 49.

See Magee, Bricker and Gesell, 1937, 119: 370.

BRIGHT, E. M. See CANNON and BRIGHT, 1931, 97: 319.

See COLWELL and BRIGHT, 1930, 92: 543, 555.

See Sawyer, Schlossberg and Bright, 1933, 104: 184.

BRIGHTON, K. See Macht and Brighton, 1937, 119: 369.

BRILL, A. K. See KRAMER, HARMAN and BRILL, 1933, 106: 611.

BRILL, S. and C. D. LEAKE. Experimental studies on factors altering intrapleural pressure, 1930, 93: 636.

BRINKHOUS, K. M. See SMITH, WARNER and BRINKHOUS, 1934, 107: 63.

See WARNER, BRINKHOUS and SMITH, 1936, 114: 667.

See Warner, Brinkhous and Smith, 1937, 119: 418.

BRINLEY, F. J. The effect of caffeine on the prevagus and postvagus chick hearts, 1932, 100: 357.

BRITTON, S. W. An apparent influence of sympathetic nerves on muscle glycogen, 1930, 93: 213.

Carbohydrate versus circulatory theories of cortico-adrenal function, 1933, 105: 11.

Maternal and fetal blood sugar changes under various experimental conditions, 1930, 95: 178.

Observations on adrenal ectomy in marsupial, hibernating and higher mammalian types, 1931, 99: 9.

On the apparent principal function of the adrenal glands, 1932, 101: 14.

Seasonal differences in the survival of cats after adrenal removal, 1932, 101: 13. Seasonal variations in survival after adrenal ectomy, 1930, 94: 686.

Seasonal variations in survival of adrenalectomized animals, 1930, 93: 637.

BRITTON, S. W., J. C. FLIPPIN and H. SILVETTE. The oral administration of cortico-adrenal extract, 1931, 99: 44.

BRITTON, S. W., A. HINSON and W. H. HALL. Differential factors controlling the heart rate during emotional excitement, 1930, 93: 637.

Neural and hormonal influences on bodily activity. Differential factors controlling the heart rate during emotional excitement, 1930, 93: 473.

BRITTON, S. W. and R. KLINE. Effects of adrenalectomy and cortico-adrenal extract on reproduction, 1933, 105: 12.

Effects of saline and other solutions on estrus and survival after adrenalectomy, 1935, 113: 17.

Further studies on reproduction and cortico-adrenal function, 1934, 109: 15.

Relation of the adrenal cortex to reproduction and lactation, 1936, 115: 627.

The influence of partial and complete adrenalectomy on reproduction and lactation, 1935, 113: 17.

BRITTON, S. W. and H. SILVETTE. A comparison of serum sodium and chloride levels in adrenal insufficiency and various experimental conditions, 1936, 116: 15.

A comparison of sodium, chloride and carbohydrate changes in adrenal insufficiency and other experimental conditions, 1937, 118: 594.

Effects of cortico-adrenal extract on carbohydrate metabolism in normal animals, 1932, 100: 693.

Effects produced by cortico-adrenal extract on normal animals, 1932, 101: 13.

Extremely prolonged survival of marmots after nephrectomy or adrenalectomy, 1937. 119: 276.

Further observations on sodium chloride balance in the adrenalectomized opossum, 1937, 118: 21.

Maternal and fetal carbohydrate relationships in the opossum (Didelphys virginiana), 1933, 105: 12.

Observations on adrenalectomized dogs, 1937, 119: 277.

Observations on the cortico-adrenal hormone, 1931, 97: 507.

On the function of the adrenal cortex—General, carbohydrate and circulatory theories, 1934, 107: 190.

Some effects of cortico-adrenal extract and other substances on adrenalectomized animals, 1931, 99: 15.

The apparent prepotent function of the adrenal glands, 1932, 100: 701.

BRITTON, S. W., H. SILVETTE and R. KLINE. Glucose distribution between blood plasma and cells in adrenal insufficiency, 1936, 116: 15.

BRITTON, S. W. See Corey and Britton, 1931, 99: 33.

See Corey and Britton, 1932, 101: 23.

See Corey and Britton, 1932, 102: 699.

See Corey and Britton, 1934, 107: 207.

See Corey and Britton, 1937, 118: 15.

See Eagle, Britton and Kline, 1932, 102: 707.

See EHRENSTEIN and BRITTON, 1935, 113: 38.

See EHRENSTEIN and BRITTON, 1936, 116: 42.

See EHRENSTEIN and BRITTON, 1937, 119: 302.

See EHRENSTEIN and BRITTON, 1937, 120: 213.

See SILVETTE and BRITTON, 1932, 100: 685.

See SILVETTE and BRITTON, 1932, 101: 94.

See SILVETTE and BRITTON, 1933, 104: 399.

See SILVETTE and BRITTON, 1934, 109: 98.

See SILVETTE and BRITTON, 1935, 111: 305.

See SILVETTE and BRITTON, 1935, 113: 122.

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BRITTON, S. W.

See SILVETTE and BRITTON, 1936, 115: 618.

See SILVETTE and BRITTON, 1936, 116: 143.

See SILVETTE, BRITTON and KLINE, 1936, 116: 144.

BROCKETT, S. H., M. A. SPIERS and H. E. HIMWICH. The lipid components of the lymph of the thoracic duct of the dog, 1934, 110: 342.

BRODY, H. The carbon dioxide dissociation curve of frog heart muscle, 1930, 93:

BRODY, H. and M. S. SHILING. A note on the relation of salivary secretion to the oxygen tension of the inspired air, 1930, 91: 399.

BRODY, H. See FENN, BRODY and PETRILLI, 1931, 97: 1.

BROGDEN, W. J. and E. CULLER. Increased acoustic sensitivity in dogs following Roentgen-radiation of the hypophysis, 1937, 119: 13.

BROGDEN, W. J. and W. H. GANTT. Cerebellar conditioned reflexes, 1937, 119: 277.

BROGDEN, W. J., E. GIRDEN, F. A. METTLER and E. CULLER. Acoustic value of the several components of the auditory system in cats, 1936, 116: 252.

BROGDON, E. and F. A. HELLEBRANDT. Cardiovascular response to postural change. Its relationship to contraction of the abdominal musculature, 1933, 105:12.

BROGDON, E. See HELLEBRANDT and BROGDON, 1932, 101: 53.

See Hellebrandt, Brogdon and Hoopes, 1934, 109: 50.

See Hellebrandt, Brogdon and Hoopes, 1935, 112: 442, 451.

See Hellebrandt, Brogdon and Kelso, 1932, 101: 365.

BROH-KAHN, R. $\dot{\mathbf{H}}$. and I. A. MIRSKY. The influence of dextrose and of increased metabolism on the utilization of β -hydroxybutyric acid, 1937, 119: 278.

BROH-KAHN, R. H. See MIRSKY and BROH-KAHN, 1936, 117: 6.

See Mirsky and Broh-Kahn, 1937, 119: 734.

See Mirsky and Broh-Kahn, 1937, 120: 446.

See Mirsky, Heiman and Broh-Kahn, 1937, 118: 290.

BROMER, A. W. See Wearn, Ernstene, Bromer, Barr, German and Zschiesche, 1934, 109: 236.

BRONFENBRENNER, J. J. See BISHOP and BRONFENBRENNER, 1936, 117: 393.

BRONK, D. W. The energy expenditure in muscular contractions of varying strengths, 1930, 93: 638.

BRONK, D. W. and L. K. FERGUSON. The nervous control of intercostal respiration, 1935, 110: 700.

The nervous regulation of the respiratory movements of intercostal muscles, 1933, 105; 13.

BRONK, D. W., L. K. FERGUSON, R. MARGARIA and D. Y. SOLANDT. The activity of the cardiac sympathetic centers, 1936, 117: 237.

BRONK, D. W., L. K. FERGUSON and D. Y. SOLANDT. The discharge of sympathetic impulses from the stellate ganglion and its relation to cardiac reflexes, 1934, 109: 15.

BRONK, D. W. and N. L. KALTREIDER. The discharge of impulses in the aortic nerve, 1931, 97: 508.

BRONK, D. W. and M. G. LARRABEE. The effects of activity and altered circulation on ganglionic transmission, 1937, 119: 279.

BRONK, D. W., F. H. LEWY and M. G. LARRABEE. The hypothalamic control of sympathetic rhythms, 1936, 116: 15.

BRONK, D. W., R. J. PUMPHREY and J. P. HERVEY. Synaptic transmission in a sympathetic ganglion, 1935, 113: 17. BRONK, D. W. and G. STELLA. The response of end organs in the carotid sinus, 1932, 101: 14.

The response to steady pressures of single end organs in the isolated carotid sinus, 1935, 110: 708.

BRONK, D. W. See BURTON and BRONK, 1937, 119: 284.

See Gammon and Bronk, 1933, 105: 35.

See Gammon and Bronk, 1935, 114: 77.

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See Gammon, Starr and Bronk, 1936, 116: 56.

BROOKENS, N. L., L. ECTORS and R. W. GERARD. Respiration of local brain regions. Technique and applications, 1936, 116: 16.

BROOKENS, N. L. See Ectors and Brookens, 1936, 116: 42.

BROOKHART, J. M., E. H. STEFFENSEN and R. GESELL. Localized faradic stimulation of the medulla oblongata and its effects upon breathing, 1937, 119: 280.

Stellate ganglia and breathing, 1936, 115: 357.

The varieties of vagal sensory fibers which modify the respiratory act, 1936, 116: 17.

BROOKHART, J. M. See Gesell, Steffensen and Brookhart, 1937, 120: 105.
See Steffensen, Brookhart and Gesell, 1937, 119: 517.

BROOKS, C. The effect of fibro-deutero-proteose on the blood, 1935, 113: 19.

Parenteral protein in pneumonias, 1937, 119: 281.

BROOKS, C. M. A delimitation of the central nervous mechanism involved in reflex hyperglycemia, 1931, 99: 64.

Reflex activation of the sympathetic system in the spinal cat, 1933, 106: 251.

Studies on the cerebral cortex. II. Localized representation of hopping and placing reactions in the rat, 1933, 105: 162.

The reaction of chronic spinal animals to hemorrhage, 1935, 114: 30.

The resistance of surviving spinal animals to hypoglycemia induced by insulin, 1934, 107: 577.

The rôle of the cerebral cortex and of various sense organs in the excitation and execution of mating activity in the rabbit, 1937, 120: 544.

See Bard, Brooks and Lowry, 1932, 101: 3.

See BARD, BROOKS and WOOLSEY, 1934, 109: 5.

See Thomas and Brooks, 1935, 113: 130.

See Thomas and Brooks, 1937, 120: 195.

BROOKS, C. McC. Compensation for blood loss in chronic spinal cats, 1935, 113: 19.

Studies on the neural basis of ovulation in the rabbit, 1935, 113: 18.

Studies on the neural basis of ovulation in the rabbit, 1937, 119: 280.

BROOKS, C. McC. and C. N. WOOLSEY. Relation in the rabbit of electrically excitable areas of cortex to placing and hopping reactions, 1936, 116: 17.

BROOKS, C. McC. See Woolsey and Brooks, 1937, 119: 423.

BROOKS, M. M. The effect of methylene blue on HCN and CO poisoning, 1932, 102: 145.

Methylene blue and hemoglobin derivatives in asphyxial poisoning, 1935, 114: 160.

Methylene blue as an antidote to CO poisoning, 1933, 104: 139.

BROSNAN, J. J. and T. E. BOYD. Agents which antagonize the curare-like action of magnesium, 1937, 119: 281.

BROTMAN, I. See Brewer, Hamilton and Brotman, 1934, 107: 420, 427, 436.

See Hamilton, Brewer and Brotman, 1933, 105: 43, 44. See Hamilton, Brewer and Brotman, 1934, 109: 47.

BROTMAN, I.

See Hamilton, Brotman and Brewer, 1934, 107: 414.

See Hamilton, Brotman and Brewer, 1934, 109: 47.

BROUGHER, J. C. The effect of desiccated spleen and splenectomy on serum calcium in normal and parathyroidectomized dogs, 1930, 92: 648.

BROWN, C. L. and R. G. SMITH. An histamine-like substance in the gastric juice, 1935, 113: 455.

BROWN, D. E. S. Pressure and the dynamics of cardiac muscle, 1931, 97: 508.
 The liberation of energy in the contracture and simple twitch, 1935, 113: 20.
 The pressure-tension-temperature relation in cardiac muscle, 1934, 109: 16.

BROWN, D. E. S. and D. J. EDWARDS. A contracture phenomenon in crossstriated muscle, 1932, 101: 15.

BROWN, M. See RALLI, BROWN and PARIENTE, 1931, 97: 432.

BROWN, M. G. See SAWYER and BROWN, 1935, 110: 620.

BROWN, M. R. The effect of removal of the sympathetic chains and of the coeliac ganglia on gastric acidity, 1933, 105: 399

BROWNE, J. S. L. and E. M. VENNING. The assay of urinary oestrin and gonadotropic substances during pregnancy, 1936, 116: 18.

BROWNE, J. S. L. See Collip, Thomson, Browne, McPhail and Williamson, 1931, 97: 513.

See Venning and Browne, 1937, 119: 417. See Vineberg and Browne, 1931, 97: 568.

BROWNELL, K. A. See HARTMAN and BROWNELL, 1930, 93: 655.

See HARTMAN and BROWNELL, 1931, 97: 530.

See HARTMAN, BROWNELL and CROSBY, 1931, 98: 674.

See HARTMAN, BROWNELL and HARTMAN, 1930, 95: 670.

See HARTMAN, BROWNELL and LOCKWOOD, 1932, 101: 50.

See HARTMAN, LOCKWOOD and BROWNELL, 1933, 105: 46.

See HARTMAN, WINTER and BROWNELL, 1934, 109: 50.

BRUHN, J. M. The respiratory metabolism of infrahuman primates, 1934, 110: 477.

BRUHN, M. J. Respiratory metabolism of infrahuman primates, 1934, 109: 16.
BRUNDAGE, J. T. Blood and plasma viscosity determined by the method of concentric cylinders, 1935, 110: 659.

See CANTAROW, BRUNDAGE and HOUSEL, 1936, 115: 1.

See Cantarow, Brundage and Housel, 1936, 116: 25.

BRUNER, H. D. See WAKERLIN, BRUNER and KINSMAN, 1935, 113: 135.

BRUNQUIST, E. H. Survival of excitability in excised muscle, 1937, 119: 282.

BRYAN, A. H. and D. W. GAISER. The influence of diet and the anterior pituitary growth hormone on the growth rate of adolescent rats, 1932, 99: 379.

BRYAN, H. F. See MACHT and BRYAN, 1935, 113: 91, 92.

See Macht and BRYAN, 1936, 116: 102, 103.

See Macht and BRYAN, 1937, 119: 367.

BRYAN, W. R. A mechanical device which produces a uniform dispersion of leucocytes in the diluting papilli and increases the accuracy of the leucocyte count, 1934, 109: 17.

BRYAN, W. R., L. L. CHASTAIN and W. E. GARREY. Errors of routine analysis in the counting of leucocytes, 1935, 113: 416.

The leucocyte count of young male adults observed after a period of rest and during mild activity in the early morning, 1935, 113: 430.

BRYAN, W. R. and W. E. GARREY. Contributory factors in parathyroid tetany in dogs, 1931, 98: 194.

The rôle of high temperature and panting in parathyroid tetany of dogs, 1930, 93: 638.

BRYAN, W. R., A. S. MINOT and L. L. CHASTAIN. Hyperguanidinemia associated with dehydration in normal and in parathyroidectomized dogs, 1933, 106: 738. The occurrence of guanidine as a contributory factor in parathyroid tetany, 1933, 105: 13.

BRYAN, W. R. See King, Garrey and Bryan, 1932, 101: 64.
See King, Garrey and Bryan, 1932, 102: 305.

BRYANT, D. S. See Brewer, Bryant and Luckhardt, 1934, 109: 14.

BRYANT, J. E. and G. A. TALBERT. Calcium as a normal constituent of the sweat, 1931, 97: 509.

BRYANT, J. E. See Talbert, Haugen, Carpenter and Bryant, 1933, 104: 441.

BUCHANAN, D. N. See Bucy and Buchanan, 1933, 104: 95.

BUCHBINDER, W. C. The effects of strophanthin and of quinidine on the rate of fibrillation of the tongue following hypoglossotomy, 1930, 91: 654.

BUCHWALD, K. W. See Cori and Buchwald, 1930, 95: 71. See Cori, Cori and Buchwald, 1930, 93: 273.

BUCKNER, G. D., W. M. INSKO, JR. and J. H. MARTIN. Abnormal growth of wattles and testes of cockerels after removal of combs, 1933, 103: 647.

Effect of confinement on the growth of chicken combs and testes, 1932, 102: 271.

BUCKNER, G. D., J. H. MARTIN and F. E. HULL. The distribution of blood calcium in the circulation of laying hens, 1930, 93: 86.

BUCKNER, G. D., J. H. MARTIN and W. M. INSKO, JR. The blood calcium of laying hens varied by the calcium intake, 1930, 94: 692.

BUCY, P. C. Electrical excitability of the premotor area of the cortex in monkeys as correlated with cytoarchitecture, 1933, **105**: 14.

The effect of anterior cordotomy on spasticity of the skeletal muscles in man, 1937. 119: 282.

BUCY, P. C. and D.N. BUCHANAN. Studies in the human neuro-muscular mechanism. I. The theory of "subsidence of afferent flow" as an explanation of the "lengthening reaction" and other phenomena, 1933, 104: 95.

BUCY, P. C. and T. J. CASE. Alterations in respiratory rate produced by electrical excitation of the cerebral cortex of dogs, 1935, 113: 20.

BUCY, P. C. See Hoff, Hoff, Bucy and Pi-Suñer, 1934, 109: 123. See KLÜVER and Bucy, 1937, 119: 352.

BUEKER, E. D. See Schmitt, Kerr, and Bueker, 1935, 110: 539.
See Schmitt, Skow and Bueker, 1934, 108: 14.

BUELL, M. V., I. A. ANDERSON and M. B. STRAUSS. On carbohydrate metabolism in adrenalectomized animals, 1936, 116: 274.

BUENO, J. G. and B. O. BARNES. The effect of Loeb's anterior pituitary extract upon the basal metabolism of dogs, 1933, 105: 15.

BUENO, J. G., B. O. BARNES and J. M. ROGOFF. Study on specific dynamic action following removal of various endocrine glands of dogs, 1935, 113: 21.

BUENO, J. G. See BARNES and BUENO, 1933, 103: 570.

See Barnes and Bueno, 1935, 113: 6, 7.

See Barnes, Bueno and Jones, 1934, 109: 5.

See Barnes, Regan and Bueno, 1933, 105: 559.

BULLOCK, L. T., M. I. GREGERSEN and R. KINNEY. The use of hypertonic sucrose solution intravenously to reduce cerebrospinal fluid pressure without a secondary rise, 1935, 112: 82.

BULLOCK, L. T., R. KINNEY and M. I. GREGERSEN. The use of hypertonic sucrose solution to reduce cerebrospinal fluid pressure without a secondary rise, 1934, 109: 17.

BULLOCK, L. T. See GREGERSEN and BULLOCK, 1933, 105: 39.

BUNIM, J. J. The diffusion constant and molecular weight of insulin, 1936, 116: 19.

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BUNNELL, W. W. See ZIMMERMAN, COWGILL, BUNNELL and DANN, 1934, 109: 440.
 BUNTING, H., W. J. MEEK and C. A. MAASKE. The chemical transmission of vagal effects to the small intestine, 1935, 114: 100.

BUNTING, R. W. See WHITE and BUNTING, 1936, 117: 529.

BURACK, E. See Cowgill, Zimmerman and Burack, 1934, 109: 24.

See Melnick, Cowgill and Burack, 1936, 116: 109.

BURDETT, M. See Carpenter, Burdett and Lee, 1934, 109: 18. See Carpenter, Lee and Burdett, 1933, 105: 17.

BURDICK, H. O. and G. PINCUS. The effect of oestrin injections upon the developing ova of mice and rabbits, 1935, 111: 201.

BURFORD, T. H. See Allen, Diddle, Burford and Gardner, 1936, 117: 381.

BURGE, W. E. Further study on the mechanism of action of ultra-violet radiation in precipitating protein and producing cataract, 1936, 116: 20.

BURGE, W. E. and O. S. ORTH. A comparison of the catalytic activity of the inorganic constituent or ash of different organs of the human, 1935, 113: 21.

BURGE, W. E. and G. C. WICKWIRE. A comparison of the rate of disintegration of nucleated and non-nucleated red blood cells, or red cells from anemic and normal animals and the effect of copper, 1935, 113: 23.

The effect of daylight and darkness and the performance of physical work on the irritability and physical strength of the plant mimosa, 1935, 113: 22.

BURGE, W. E., G. C. WICKWIRE, H. E. NEILD and F. M. HILPERT. Further studies on the cause of the calcification of the crystalline lens, 1937, 119: 283.

BURGE, W. E., G. C. WICKWIRE and O. S. ORTH. The effect of moving liquid upon the electrical stimulation of muscle, 1933, 104: 480.

BURGE, W. E., G. C. WICKWIRE, O. S. ORTH, H. W. NEILD and W. P. ELHARDT. A study of the electrical potential of the cerebral cortex in relation to anesthesia, consciousness and unconsciousness, 1936, 116: 19.

BURGE, W. E. See FULLER and BURGE, 1934, 109: 36.

See KNEER and BURGE, 1930, 93: 666.

See KROUSE and BURGE, 1936, 116: 94.

See Neild, Elhardt, Wickwire, Orth and Burge, 1936, 116: 113.

See ORTH and BURGE, 1932, 101: 82.

See Orth, Neild, Schamp, Sullivan and Burge, 1936, 116: 116.

See ORTH, WICKWIRE and BURGE, 1933, 105: 77.

See VERDA, ORTH and BURGE, 1932, 101: 100.

See Verda, Williams, Wickwire and Burge, 1930, 93: 696.

See Wickwire and Burge, 1930, 93: 697.

See Wickwire and Burge, 1934, 109: 111.

See WICKWIRE and BURGE, 1936, 116: 161.

See Wickwire, Burge and Krouse, 1936, 116: 638.

See Wickwire, Kneer, Neild and Burge, 1934, 109: 111.

See Wickwire, Orth and Burge, 1933, 105: 99.

BURGERT, P. H. See Maison, Highstone, Mayka, Burgert and Murray, 1933, 105: 69.

BURGESS, J. P. See Sacks, Ivy, Burgess and Vandolah, 1932, 101: 331.

BURGET, G. E. and W. K. LIVINGSTON. Pathway for visceral afferent impulses from the forelimb of the dog, 1931, 97: 249.

BURGET, G. E. and P. MOORE. Relative rates of glucose and levulose absorption, 1931, 97: 509.

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BURGET, G. E., P. H. MOORE and R. W. LLOYD. Absorption of glucose by chronic loops of colon, 1933, 105: 187.

Absorption of glucose by closed loops of colon, 1933, 105: 15.

Is levulose converted to dextrose by the intestinal mucosa, 1932, 101: 16.

Is levulose converted to dextrose in the process of absorption from the intestine, 1932, 101: 570.

The relative absorption rates of dextrose and levulose, 1932, 101: 565.

BURGET, G. E., W. R. TODD and E. S. WEST. Sorbitol as a diuretic, 1937, 119: 283.
BURGET, G. E. and W. E. ZELLER. Observations on the cardia in unanesthetized animals, 1936, 116: 21.

Relation of the vagi to hyperemia and erosions in the gastro-intestinal tract following parathyroidectomy, 1935, 113: 23.

BURKE, J. C. See McIntyre and Burke, 1937, 119: 364, 365.

BURNS, E. L., F. H. SCHARLES and L. F. AITKEN. The effect of mixtures of tissue extracts and blood sera of various animals on the coagulation of blood, 1931, 97: 233.

BURNS, G. See Kunde, Green and Burns, 1932, 99: 469.

BURNS, H. S. and M. B. VISSCHER. The influence of various anions of the lyotropic series upon the sodium and chloride content of fluid in the intestine, 1934, 110: 490.

BURROWS, L. A. See Macht and Burrows, 1935, 113: 92.

BURROWS, W. H. See MARKOWITZ, YATER and BURROWS, 1932, 101: 73.

BURTON, A. C. A new technique for the measurement of average skin temperature and its use in studies of heat regulation of the body, 1933, 105: 15.

BURTON, A. C. and H. C. BAZETT. A study of the average temperature of the tissues, of the exchanges of heat and vasomotor responses in man by means of a bath calorimeter, 1936, 117: 36.

The measurement of vasomotor reactions to temperature changes by means of a bath calorimeter, 1936, 116: 21.

BURTON, A. C. and D. W. BRONK. The motor mechanism of shivering and of thermal muscular tone, 1937, 119: 284.

BURTON, A. C. See MURLIN and BURTON, 1934, 109: 78.

BUSSABARGER, R. A., W. B. BRADLEY and L. G. LEDERER. Changes in plasma carbon dioxide combining power and serum calcium in normal and gastrectomized dogs, 1937, 119: 284.

BUSSABARGER, R. A. and F. T. JUNG. Dietary and hematologic studies after gastrectomy in the rat, 1936, 117: 59.

Survival time and nutritional state of the gastrectomized rat, 1935, 113: 24.

SSABARGER, R. A., L. G. LEDERER and A. C. IVY. The effect of gastrectom

BUSSABARGER, R. A., L. G. LEDERER and A. C. IVY. The effect of gastrectomy in young dogs on calcification of bone, 1936, 116: 22.

BUTCHER, E. O. Hair growth in adrenalectomized, and adrenalectomized thyroxin-treated rats, 1937, 120: 427.

BUTLER, A. M. See GAMBLE, McKHANN, BUTLER and TUTHILL, 1934, 109: 139.

BUTLER, V. and W. E. GARREY. Vascular tone and variations in leucocyte count in the sympathectomized dog, 1931, 98: 394.

BUTLER, V. See GARREY and BUTLER, 1932, 100: 351. See GARREY and BUTLER, 1932, 101: 37.

BUTSCH, W. L. Glucose tolerance and the glycogen storage capacity of the dog, 1934, 108: 639.

BYLAND, N. O. See BOLDYREFF, BYLAND and MARTIN, 1936, 116: 13.

- CAJORI, F. A. The enzyme activity of dogs' intestinal juice and its relation to intestinal digestion, 1933, 104: 659.
- CALHOUN, J. A. See HARRISON, CALHOUN and HARRISON, 1932, 100: 68.
 See WILKINS, CALHOUN, PILCHER and REGEN, 1935, 112: 477.
- CALVIN, D. B. The distribution of sugar between corpuscles and plasma, 1932, 101:16.
 - The distribution of sugar between corpuscles and plasma in hyper- and hypoglycemic conditions, 1935, 113: 25.
 - The effect of irradiation by the mercury vapor arc on the activity of pepsin and trypsin, 1930, 93: 639.
 - Urinary output and the regulation of blood volume and composition in experimental hydremia, 1936, 116: 23.
- CALVIN, D. B. and K. KAUFMAN. Thyroid deficiency in the mother and its effect on the thymus of the new-born white rat, 1937, 119: 286.
- CALVIN, D. B., A. H. SMITH and L. B. MENDEL. Blood volume regulation and blood composition in experimental hydremia, 1933, 105: 16, 135.
- CALVIN, D. B. See Ellis and Calvin, 1932, 101: 32.
 - See WEINBACH and CALVIN, 1934, 109: 108.
- CAMERO, A. R. and E. B. KRUMBHAAR. The effect of experimental massive hemorrhages on the size of the red blood cell in dogs, 1933, 103: 407.
- CAMERON, D. E. See HOAGLAND, RUBIN and CAMERON, 1937, 120: 559.
- CAMERON, H. C. Salivary secretion and the physiological mechanism of avitaminosis-A, 1936, 115: 210.
- CAMERON, J. A. See FISHER and CAMERON, 1937, 119: 309.
- CAMILLE, N. See KLEITMAN and CAMILLE, 1931, 97: 537.
 - See Kleitman and Camille, 1932, 100: 474.
- CAMPBELL, C. J. See Knowlton and Campbell, 1929, 91: 19.
- CAMPBELL, E. H., JR. See FAZEKAS, CAMPBELL and HIMWICH, 1937, 118: 297.
- CAMPBELL, J. Anterior pituitary extracts and liver fat, 1936, 116: 24.
- CAMPBELL, M. L. and A. H. TURNER. The colloid osmotic pressure, nitrogen content and refractive index of turtle blood serum and intraperitoneal fluid, 1936, 116: 24.
- CANNON, B. A method of stimulating autonomic nerves in the unanesthetized cat with observations on the motor and sensory effects, 1933, 105: 366.
 - The effects of progressive sympathectomy on blood pressure, 1931, 97: 592. See Rosenblueth and Cannon, 1933, 105: 373.
- CANNON, C. Y. See Espe and Cannon, 1937, 119: 720.
- CANNON, P. R. See HOLCK and CANNON, 1936, 116: 78.
- CANNON, W. B. Studies on the conditions of activity in endocrine organs. XXVII. Evidence that medulliadrenal secretion is not continuous, 1931, 98: 447.
- CANNON, W. B. and Z. M. BACQ. Studies on the conditions of activity in endocrine organs. XXVI. A hormone produced by sympathetic action on smooth muscle, 1931, 96: 392.
- CANNON, W. B. and E. M. BRIGHT. A belated effect of sympathectomy on lactation, 1931, 97: 319.
- CANNON, W. B. and A. ROSENBLUETH. A comparison of the effects of sympathin and adrenine on the iris, 1935, 113: 251.
 - A comparative study of sympathin and adrenine, 1935, 112: 268.

CANNON, W. B. and A. ROSENBLUETH.

Sensitization of denervated structures, 1936, 116: 25.

Studies on conditions of activity in endocrine organs. XXIX. Sympathin E. and sympathin I, 1933, 104: 557.

The sensitization of a sympathetic ganglion by preganglionic denervation, 1936, 116: 408.

The transmission of impulses through a sympathetic ganglion, 1937, 119: 221, 285.

CANNON, W. B. See FREEMAN, PHILLIPS and CANNON, 1931, 98: 435.

See FRIEDGOOD and CANNON, 1936, 116: 54.

See Gregersen and Cannon, 1932, 102: 336.

See Moore and Cannon, 1930, 94: 201.

See Newton, Zwemer and Cannon, 1931, 96: 377.

See Rosenblueth and Cannon, 1932, 99: 398.

See Rosenblueth and Cannon, 1934, 108: 384, 599.

See Rosenblueth and Cannon, 1935, 112: 33.

See Rosenblueth and Cannon, 1936, 116: 414.

CANTAROW, A., J. T. BRUNDAGE and E. L. HOUSEL. Blood studies in acute experimental hyperparathyroidism, 1936, 116: 25.

Blood sugar, inorganic phosphorus and phosphatase activity following the intravenous injection of calcium salts, 1936, 115: 1.

CANTAROW, A., H. L. STEWART and S. G. McCOOL. Serum phosphatase in cats with total bile stasis, 1935, 113: 25.

CANZANELLI, A., R. GUILD and D. RAPPORT. The use of ethyl alcohol as a fuel in muscular exercise, 1934, 110: 416.

CANZANELLI, A. and M. KOZODOY. The respiratory quotient of exercise in pancreatic diabetes, 1933, 103: 298.

CANZANELLI, A. and D. RAPPORT. The comparative effects upon metabolism of intravenously injected tyrosine, diiodotyrosine, diiodothyronine and thyroxine, 1933, 103: 279.

The nature of the foodstuffs oxidized to provide energy in muscular exercise.

IV. The use of protein as a fuel in exercise, 1932, 102: 325.

CANZANELLI, A., M. SEGAL and D. RAPPORT. The utilization of the calorigenic action of diiodothyronine and thyroxine in muscular exercise, 1934, 110: 410.

CANZANELLI, A. See BIGURIA and CANZANELLI, 1934, 110: 243.

See Ralli, Canzanelli and Rapport, 1931, 96: 331.

See Rapport and Canzanelli, 1931, 97: 553.

See Rapport and Canzanelli, 1932, 101:85.

See RAPPORT, CANZANELLI and GUILD, 1934, 109: 86.

CAPLAN, M. See BEUTNER and CAPLAN, 1932, 101: 8.

CARDWELL, J. C. See ABRAMSON and CARDWELL, 1934, 109: 1.

CARLSON, A. J. See Appelrot and Carlson, 1930, 95: 56.

See Barnes, Carlson and Riskin, 1931, 98: 86.

See Da Costa and Carlson, 1933, 104: 247.

See FETTER, BARRON and CARLSON, 1932, 101: 605.

See FETTER and CARLSON, 1931, 96: 257.

See FETTER and CARLSON, 1932, 101: 598.

See Johnson, Carlson and Johnson, 1933, 103: 517.

See Kunde, D'Amour, Carlson and Gustavson, 1930, 95: 630.

See Kunde, D'Amour, Gustavson and Carlson, 1931, 96: 677.

See Kunde, Van Dyke, Wallen-Lawrence, Kamm and Carlson, 1931, 97: 538.

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CARMICHAEL, E. B. and L. C. POSEY. A convenient pneumograph, 1932, 101: 17. CARMICHAEL, E. B. See Posey and Carmichael, 1933, 105: 80. See Samuel and Carmichael, 1936, 116: 136.

CARPENTER, R. and G. A. TALBERT. Magnesium secreted in the sweat and its relation to the calcium content, 1932, 101: 17.

CARPENTER, R. See Talbert, Haugen, Carpenter and Bryant, 1933, 104: 441.
CARPENTER, R. C. See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

CARPENTER, T. M., M. BURDETT and R. C. LEE. The effect of hexoses on the metabolism of alcohol in man, 1934, 109: 18.

CARPENTER, T. M., R. G. HOSKINS and F. A. HITCHCOCK. Voluntary induced increases in the rates of certain "involuntary" physiological processes of a human subject, 1934, 110: 320.

CARPENTER, T. M. and R. C. LEE. A comparison of the effects on the human respiratory exchange of hexoses ingested separately and together, 1932, 102: 659.

A comparison of the respiratory exchange of men and women as affected by the ingestion of galactose, 1932, 102: 646.

Respiratory quotient, alveolar air and dead space before and after the ingestion of glucose and fructose, 1931, 97: 509.

The effect of small quantities of galactose on the human respiratory exchange, 1932, 102:635.

The influence of glucose and of fructose on the effective dead space in human respiration, 1933, 104: 10.

CARPENTER, T. M., R. C. LEE and M. BURDETT. The effect of muscular exercise on the disappearance of ethyl alcohol in man, 1933, 105: 17.

CARR, C. J. and F. F. BECK. The metabolism of adrenalectomized rats, 1937, 119: 589.

CARR, R. H. and C. M. JAMES. Synthesis of adequate protein in the glands of the pigeon crop, 1931, 97: 227.

CARTLAND, G. F. and M. H. KUIZENGA. The bioassay of adrenal cortical extracts, 1936, 117:678.

CARY, M. K. See Apperly and Cary, 1936, 116: 337.

CASE, T. J. See Bucy and Case, 1935, 113: 20.

CASTLE, W. B. and G. A. DALAND. Susceptibility of erythrocytes to hypotonic hemolysis as a function of discoidal form, 1937, 120: 371.

CASTLETON, K. B. An experimental study of the movements of the small intestine, 1934, 107: 641.

CATCHPOLE, H. R., H. H. COLE and P. B. PEARSON. Studies on the rate of disappearance and fate of mare gonadotropic hormone following intravenous injection, 1935, 112: 21.

CATCHPOLE, H. R. See Pearson and Catchpole, 1936, 115: 90.

CATHERWOOD, R. See HELLEBRANDT, TEPPER and CATHERWOOD, 1936, 116: 73. CATTELL, McK. Changes in the efficiency of muscular contraction under pressure,

1934, 109: 18.

The recovery heat after a muscle twitch and a short tetanus, 1933, 105: 17.

CATTELL, McK. and D. J. EDWARDS. Epinephrin action in relation to the hydrostatic pressure effect on the contraction of cardiac muscle, 1931, 96: 657.

On the mechanism of the action of hydrostatic pressure on striated muscle, 1930, 93: 639.

The influence of hydrostatic pressure on the contraction of cardiac muscle in relation to temperature, 1930, 93: 97.

CATTELL, McK. and E. SHORR. The influence of temperature on the recovery heat-production of mammalian muscle, 1935, 113: 26.

The recovery heat-production of mammalian muscle, 1932, 101: 18.

CATTELL, McK., H. G. WOLFF and D. CLARK. The liberation of adrenergic and cholinergic substances in the submaxillary gland, 1934, 109: 375.

CATTELL McK. See Edwards and Cattell, 1930, 93: 90.

See EDWARDS and CATTELL, 1932, 101: 31.

See Forbes, Cattell and Davis, 1935, 112: 152.

See Grundfest and Cattell, 1935, 113: 56.

See WOLFF and CATTELL, 1934, 109: 113.

See Wolff and Cattell, 1937, 119: 422

See Wolff, Cattell and Clark, 1934, 109: 114.

CAVENESS, W. F. See Forbes, Smith, Lambert, Caveness and Derbyshire, 1933, 103: 131.

CAYWOOD, B. E. See BEUTNER and CAYWOOD, 1930, 93: 634.

CEDER, E. T. See Hirschfelder and Ceder, 1930, 91: 624.

CHAFFEE, E. L. and E. SUTCLIFFE. The differences in electrical response of the retina of the frog and horned toad according to the position of the electrodes, 1930, 95: 250.

CHAIKOFF, I. L., G. E. GIBBS, G. F. HOLTOM and F. L. REICHERT. The lipid metabolism of the hypophysectomized dog and the lipid and carbohydrate metabolism of the hypophysectomized-depanceatized dog, 1936, 116: 543.

CHAIKOFF, I. L., G. F. HOLTOM and F. L. REICHERT. The glycogen content of liver and muscle in the completely hypophysectomized dog, 1936, 114: 468.

CHAIKOFF, I. L. and W. R. LYONS. Lactation in diabetes, 1933, 106: 716.

CHAIKOFF, I. L., F. L. REICHERT, P. S. LARSON and M. E. MATHES. The effect of hypophysectomy and cerebral manipulation in the dog upon the response of the blood sugar and inorganic phosphorus to insulin, 1935, 112: 493.

CHAIKOFF, I. L., F. L. REICHERT, L. S. READ and M. E. MATHES. The influence of epinephrine on the blood sugar, lactic acid and inorganic phosphorus of completely hypophysectomized dogs, 1935, 113: 306.

CHAMBERS, L. A. A study of population growth and survival in cultures of Paramecium caudatum subjected to mechanical vibration, 1936, 116: 26.

The action of intense sonic vibration on pepsin and trypsin, 1934, 109: 19.

The bactericidal action of intense audible sound, 1933, 105: 18.

CHAMBERS, R., M. BELKIN and L. V. BECK. Inhibition of secretory activity of kidney tubules in tissue culture, 1934, 109: 19.

CHAMBERS, R. See Baron and Chambers, 1936, 114: 700.

CHAMBERS, W. H., J. P. CHANDLER and S. B. BARKER. Changes in the metabolism of protein and carbohydrate during prolonged fasting, 1936, 116: 26.

CHAMBERS, W. H. and M. DANN. Metabolism of ingested protein and carbohydrate in the fasting dog, 1931, 97: 510.

The oxidation of glucose after fasting, 1933, 105: 18.

CHAMBERS, W. H. and E. MARQUIS. Some factors influencing glucose tolerance in the fasting dog, 1932, 101: 18.

CHAMBERS, W. H., J. E. SWEET and J. P. CHANDLER. Carbohydrate metabolism in the hypophysectomized dog, 1935, 113: 26.

Carbohydrate metabolism in the hypophysectomized depancreatized dog, 1937, 119: 286.

CHAMBERS, W. H. See Barker, Chandler and Chambers, 1937, 119: 265.
See Dann and Chambers, 1930, 93: 643.

See Himwich, Chambers, Hunter and Spiers, 1932, 99: 619.

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CHAMELIN, I. M. See HARROW, CHAMELIN and MAZUR, 1934, 109: 436.

CHAN, E. See KRAUSE and CHAN, 1933, 103: 270.

CHANDLER, J. P. See BARKER, CHANDLER and CHAMBERS, 1937, 119: 265.

See Chambers, Chandler and Barker, 1936, 116: 26. See Chambers, Sweet and Chandler, 1935, 113: 26.

See Chambers, Sweet and Chandler, 1937, 119: 286.

CHANG, S. A comparative study of hemolysis of red blood corpuscles of normal and thyroid-fed dogs, 1934, 109: 20.

CHANG, S., M. C. PATRAS and R. D. TEMPLETON. Some dietary factors influencing cardiac rigor in albino rats, 1937, 118: 423.

CHANG, T. H. and R. W. GERARD. Studies on nerve metabolism. VII. The rôle of lactic acid, 1933, 104: 291.

The action of dyes, eyanide and carbon monoxide on nerve respiration, 1931, 97: 511.

CHANG, T. H., R. W. GERARD and M. SHAFFER. The influence of ions on nerve respiration, 1932, 101: 19.

CHANG, T. H., M. SHAFFER and R. W. GERARD. The influence of electrolytes on respiration in nerve, 1935, 111: 681.

CHANG, T. H. See Barnes and Chang, 1933, 105: 3.
See Shaffer, Chang and Gerard, 1935, 111: 697.

CHANGNON, E. See Kunde, Green, Changnon and Clark, 1932, 99: 463.

CHAO, I. The cold stimulation and the influence of neutral sodium-salt solutions on the cold stimulation, 1934, 109: 561.

The influence of neutral sodium-salt solutions on chemical stimulation, 1934, 109: 550.

CHAPPELL, M. N. See PIKE, McCulloch and Chappell, 1930, 93: 678.

CHARIPPER, H. A. Hemolysis of the erythrocytes of amphibia, 1930, 94: 278.

CHARLES, A. See Best, Charles and Cowan, 1937, 119: 272.

CHASE, E. B. See MANVILLE and CHASE, 1937, 118: 549.

CHASE, W. P. See KELLER, CHASE and Roy, 1937, 119: 348.

See Keller, Roy and Chase, 1936, 116: 89, 91.

See Keller, Roy and Chase, 1937, 118: 720.

CHASIS, H. See JOLLIFFE and CHASIS, 1933, 104: 677.

CHASTAIN, L. L. See BRYAN, CHASTAIN and GARREY, 1935, 113: 416, 430.

See Bryan, Minot and Chastain, 1933, 105: 13.

See Bryan, Minot and Chastain, 1933, 106: 738.

See Garrey and Chastain, 1937, 119: 314, 315.

CHEN, A. L. See CHEN, JENSEN and CHEN, 1931, 97: 511, 512.
See CHEN, JENSEN and CHEN, 1932, 101: 20.

CH'EN, G. See VAN DYKE and CH'EN, 1935, 113: 133.

CHEN, K. K. and T. Q. CHOU. The action and toxicity of gelsemicine, 1937, 119: 287.

CHEN, K. K., H. JENSEN and A. L. CHEN. Comparative studies on the principles isolated from twelve species of toads, 1932, 101: 20.

The action of bufagin and marinobufotoxin, obtained from the secretion of Bufo marinus (Bufo agua), 1931, 97: 511.

The action of the principles of Ch'an Su, the dried venom of the chinese toad, 1931, 97: 512.

The active grouping in the molecules of cinobufagin and cinobufotoxin, 1931, 97:512.

CHEN, Y. P. See Freeman and Chen, 1937, 119: 311.

CHERRY, I. S. and L. A. CRANDALL, JR. The response of the liver to the oral administration of glucose, 1937, 120: 52.

The specificity of pancreatic lipase: Its appearance in the blood after pancreatic injury, 1932, 100: 266.

CHERRY, I. S. See CRANDALL and CHERRY, 1931, 97: 515.

See Crandall and Cherry, 1936, 116: 32.

See CRANDALL and CHERRY, 1937, 119: 291.

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CHERRY, J. H., G. S. EADIE and W. P. FRAZER. A study of Cushny's theory of sulphate diuresis, 1932, 102: 370.

CHIDSEY, J. L. and J. A. DYE. The increase in insulin secretion following injection of epinephrine and its relation to the high liver glycogen values obtained, 1935, 111: 223.

CHINN, P. On the birefringence of nerve cells, 1937, 119: 287.

CHITWOOD, H. C. See MACHT and CHITWOOD, 1935, 113: 93.

CHOR, H. and R. E. DOLKART. A study of "simple disuse atrophy" in the monkey, 1936, 117: 626.

CHOR, H., R. E. DOLKART and H. A. DAVENPORT. Chemical and histological changes in denervated skeletal muscle of the monkey and cat, 1937, 118: 580.
CHOU, T. Q. See CHEN and CHOU, 1937, 119: 287.

CHRISTENSEN, E. H. See DILL, CHRISTENSEN and EDWARDS, 1936, 115: 530.

CHRISTMAN, G. See RIDDLE, CHRISTMAN and BENEDICT, 1930, 95: 111.

CHURCH, C. F. Functional studies of the nervous system in experimental beriberi, 1935, 111: 660.

CHUTE, A. L. and L. IRVING. The effect of acid feeding upon the composition of bone, 1932, 101: 20.

CLARK, A.-B. See WALD and CLARK, 1936, 116: 157.

CLARK, B. B. and R. B. GIBSON. A slip cover nephelometer adaptation for the determination of fluorescent substances (urobilin), 1936, 116: 27.

Plasma lipids in pancreatic atrophy following administration of betaine hydrochloride, 1935, 113: 27.

Treatment of experimental alcohol poisoning in dogs, 1933, 105: 19.

CLARK, B. B., R. B. GIBSON and R. G. SNYDER. Increased effectiveness of insulin when given day and night to diabetic patients by injections of equal unitage at intervals of 2 to 4 hours, 1934, 109: 20.

CLARK, B. B., J. B. ROBINSON and L. J. SCHIFF. Concerning the use of carotene as a liver function test, 1937, 119: 288.

CLARK, B. B. See Andersch, Clark and Gibson, 1934, 109: 2.

See Paul and Clark, 1935, 113: 105.

See Paul, Clark and Martin, 1933, 105: 79.

See Paul, Clark and Smith, 1934, 109: 82.

CLARK, D., J. HUGHES and H. S. GASSER. Afferent function in the group of nerve fibers of slowest conduction velocity, 1935, 113: 27.

Afferent function in the group of nerve fibers of slowest conduction velocity, 1935, 114:69.

CLARK, D. See CATTELL, WOLFF and CLARK, 1934, 109: 375.
See Howe and Clark, 1936, 116: 80.

CLARK, D. A. Muscle counts of motor units: A study in innervation ratios, 1931, 96: 296.

See Howe and CLARK, 1937, 119: 567.

See WOLFF, CATTELL and CLARK, 1934, 109: 114.

CLARK, E. See Kunde, Green, Changnon and Clark, 1932, 99: 463.

CLARK, E. L. See CLARK and CLARK, 1933, 105: 19.

CLARK, E. R. and E. L. CLARK. Evidence relating to the removal of extravascular substances without the agency of lymphatic vessels, 1933, 105: 19.

CLARK, E. R., E. L. CLARK and E. A. SWENSON. The contraction of arterioles of various sizes and the passivity of venules and capillaries, 1933, 105: 19.

CLARK, G. L. and J. N. MRGUDICH. An x-ray diffraction study of the effect of rachitis upon the structural characteristics of bone, 1934, 108: 74.

CLARK, J. H. A method for measuring elasticity in vivo and results obtained on the eyeball at different intraocular pressures, 1932, 101: 474.

A study of tendons, bones, and other forms of connective tissue by means of x-ray diffraction patterns, 1931, 98: 328.

The effect of ultraviolet radiation on lens protein in the presence of salts and sugars, 1936, 116: 27.

The effect of ultraviolet radiation on lens protein in the presence of salts and the relation of radiation to industrial and senile cataract, 1935, 113: 538.

The elasticity of the eyeball under different intraocular pressures, 1932, 101:21. The elasticity of veins, 1933, 105:418.

CLARK, J. H., D. R. HOOKER and L. H. WEED. The hydrostatic factor in venous pressure measurements, 1934, 109: 166.

CLARK, J. H. See FLEXNER, CLARK and WEED, 1932, 101: 292.

See ROWNTREE, CLARK and HANSON, 1934, 109: 90.

See Rowntree, Clark, Steinberg, Einhorn and Hanson, 1936, 116: 132, 133. See Weed, Flexner and Clark, 1932, 100: 246.

CLARK, L. B. Dark adaptation in the insect, Dineutes assimilis, 1936, 116: 28.

CLARKE, M. F., A. L. BASSIN and A. H. SMITH. Skeletal changes in the rat induced by a ration extremely poor in inorganic salts, 1936, 115: 556.

CLARKE, M. F. and A. H. SMITH. Effect of a diet poor in salts upon the growth and composition of the incisors of the rat, 1935, 112: 286.

The effect on the albino rat of a diet inadequate in mineral salts: ability to recover body proportions after a period of suppressed growth, 1933, 105: 20.

CLARKE, R. W. and H. W. SMITH. The excretion of inulin and creatinine in M. rhesus, 1936, 116: 28.

CLARKE, R. W. See GOLDRING, CLARKE and SMITH, 1936, 116: 62.

CLEVELAND, D. A. The effect of ergotamine upon glycosuria and hyperglycemia produced by stimulation of the superior cervical sympathetic ganglion, 1935, 113: 592.

See Weil, Zeiss and Cleveland, 1931, 98: 363.

CLONEY, E. See BAIRD, CLONEY and ALBRIGHT, 1933, 104: 489.

COBB, D. M. See Fenn and Cobb, 1932, 102: 379, 393.

See Fenn and Cobb, 1935, 112: 41.

See FENN and COBB, 1936, 115: 345.

See Fenn, Cobb, Hegnauer and Marsh, 1934, 110: 74.

See Fenn, Cobb and Marsh, 1934, 110: 261.

COCKRILL, J. R., E. G. MILLER, JR. and R. KURZROK. The substance in human seminal fluid affecting uterine muscle, 1935, 112: 577.

COCKRILL, J. R. See MACKAY and COCKRILL, 1930, 94: 220.

CODE, C. F. The carotid sinus nerve in the dog, 1935, 113: 28.

CODE, C. F., W. T. DINGLE and V. H. K. MOORHOUSE. The cardiovascular carotid sinus reflex, 1936, 115: 249.

CODE, C. F. and H. E. ESSEX. The mechanism involved in the production of exophthalmos in the dog by vago-sympathetic stimulation, 1935, 113: 29. COGGESHALL, H. C. and J. A. GREENE. The influence of desiccated thyroid gland, thyroxin, and inorganic iodine, upon the storage of glycogen in the liver of the albino rat under controlled conditions, 1933, 105: 103.

COHEN, J. L. See BARTOLI, COHEN and STRUCK, 1937, 119: 267.

COHEN, M. B. and R. W. GERARD. Oxidizing enzymes from brain, 1934, 109: 21.
Oxidizing enzymes in brain extracts, 1937, 119: 34.

COHEN, M. B., J. A. RUDOLPH and J. M. ROGOFF. The output of epinephrin from the adrenal glands during anaphylactic shock, 1933, 105: 21.

COHEN, M. B., J. A. RUDOLPH, P. WASSERMAN and J. M. ROGOFF. The output of epinephrin from the adrenal glands during anaphylaetic shock, 1933, 106: 414.

COHEN, P. P. Studies in ketogenesis, 1937, 119: 288.

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COHEN, R. and R. W. GERARD. The anoxic recovery of asphyxiated nerve, 1933, 105: 22.

COHEN, R. A., R. W. GERARD and N. TUPIKOW. The action of iodoacetate and glutathione on nerve and muscle, 1934, 109: 22.

COHN, A. E. and J. M. STEELE. The influence of frequency of contraction of the isolated mammalian heart upon the consumption of oxygen, 1935, 113: 654.
COHN, A. E. See Anthony, Cohn and Steele 1932, 102: 167.

COHN, D. J., A. LEVINSON and F. McCARTHY. Physiological variations in the glucose ratio of blood and cerebrospinal fluid, 1933, 103: 613.

COHN, D. J. See Soskin, Allweiss and Cohn, 1934, 109: 155.

COLE, H. H. Superfecundity in rats treated with mare gonadotropic hormone, 1937, 119: 704.

COLE, H. H., H. R. GUILBERT and H. GOSS. Further considerations of the properties of the gonad-stimulating principle of mare serum, 1932, 102: 227.

COLE, H. H. and G. H. HART. Sex hormones in the blood serum of mares. II. The sera of mares from the 222nd day of pregnancy to the first heat period post-partum, 1930, 94: 597.

The potency of blood serum of mares in progressive stages of pregnancy in effecting the sexual maturity of the immature rat, 1930, 93: 57.

COLE, H. H. and R. F. MILLER. Artificial induction of ovulation and oestrum in the ewe during anoestrum, 1933, 104: 165.

COLE, H. H. See CATCHPOLE, COLE and PEARSON, 1935, 112: 21.
See Hart and Cole, 1934, 109: 320.

COLE, K. S. Electrical impedance of Hipponöe egg, 1935, 113: 29.

COLE, K. S. and R. H. COLE. Electric impedance of Asterias and Arbacia eggs, 1936, 116: 28.

COLE, R. H. See COLE and COLE, 1936, 116: 28.

COLE, V. V. See Enright, Cole and Hitchcock, 1935, 113: 221.

COLETTI, C. J., JR. Epinephrine and the blood sugar level, 1937, 119: 1.

COLLER, F. A. See MADDOCK and COLLER, 1933, 106: 589.

COLLETT, M. E., G. E. WERTENBERGER, M. SCHOTT, F. LAWTON, D. M. HARLOR and F. REED. The effect of ovarian hormones upon the B.M.R. of castrate women, 1935, 113: 29.

COLLETT, M. E. See WERTENBERGER, COLLETT and SMITH, 1936, 116: 159.

COLLINS, D. A. Ascites and other effects of large saline injections, 1934, 108: 476.

Hypertension from constriction of the arteries of denervated kidneys, 1936, 116: 616.

The phenolsulphonephthalein renal function test in dogs, 1936, 115: 27.

Transudates and large saline injections, 1933, 105: 22.

COLLINS, D. A. and F. H. SCOTT. The freezing-points of serum and corpuscles, 1932, 101: 21.

COLLINS, D. A. See HEMINGWAY and COLLINS, 1932, 99: 338. See HEMINGWAY, COLLINS and BERNHART, 1936, 117: 102.

COLLINS, L. H. See STARR, DONAL, MARGOLIES, SHAW, COLLINS and GAMBLE, 1934, 109: 101.

COLLINS, L. H., JR. See STARR and COLLINS, 1930, 93: 690.

See STARR and COLLINS, 1931, 96: 228.

See STARR and COLLINS, 1933, 104: 650.

COLLINS, M. See King, Collins and Peterson, 1932, 102: 375.

COLLIP, J. B., C. S. McEUEN and H. SELYE. Effect of testosterone on the mammary gland, 1936, 116: 29.

COLLIP, J. B., H. SELYE and A. NEUFELD. Experimental pancreatic diabetes in the monkey, 1937, 119: 289.

COLLIP, J. B., H. SELYE and D. L. THOMSON. The loss of sensitivity to gonadotropic hormones, 1934, 109: 22.

COLLIP, J. B., D. L. THOMSON, J. S. L. BROWNE, M. K. McPHAIL and J. E. WILLIAMSON. Placental hormones, 1931, 97: 513.

COLLIP, J. B. See Anderson and Collip, 1934, 109: 2.

See Bachman, Selve, Thomson and Collip, 1935, 113: 3.

See Black, Collip and Thomson, 1935, 113: 12.

See Kutz, Selye, Denstedt, Bachman, Thomson and Collip, 1934, 109: 66. See Thomson, Selye and Collip, 1934, 109: 105.

COLWELL, A. R. The use of constant glucose injections for the study of induced variations in earbohydrate metabolism; I. Methods and controls, 1930, 91: 664.

The use of constant glucose injections for the study of induced variations in carbohydrate metabolism: II. The effects of insulin, pancreatectomy and nervous manipulations of the pancreas, 1930, 91: 679.

COLWELL, A. R. and E. M. BRIGHT. The use of constant glucose injections for the study of induced variations in carbohydrate metabolism: III. The fate of the retained sugar under normal conditions and after epinephrin and insulin, 1930, 92: 543.

The use of constant glucose injections for the study of induced variations in carbohydrate metabolism: IV. Suppression of glucose combustion by continuous prolonged epinephrin administration, 1930, 92: 555.

COLWELL, A. R. See JACOBS and COLWELL, 1936, 116: 194.

COMBS, J. D. The relationship of the stage of development of an organ to the effects of x-rays, 1937, 119: 290.

COMROE, J. H. and C. F. SCHMIDT. Reflexes from the carotid body (Glomus caroticum) to the respiratory center of the dog, 1937, 119: 290.

COMROE, J. H., JR. See Starr, Abbott, Comroe, Elsom and Reisinger, 1933, 105: 90.

CONKLIN, C. See McClendon, Myrick, Conklin and Wilson, 1931, 97:82.

CONKLIN, R. E. The formation and circulation of lymph in the frog: I. The rate of lymph production, 1930, 95: 79.

The formation and circulation of lymph in the frog: II. Blood volume and pressure, 1930, 95: 79.

The formation and circulation of lymph in the frog: III. The permeability of the capillaries to protein, 1930, 95: 98.

The permeability of frog capillaries to protein, 1935, 112: 401.

COOK, D. D. and R. W. GERARD. The effect of stimulation on the degeneration of a severed peripheral nerve, 1931, 97: 412.

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COOK, S. F. and I. W. HARMON. The regulation of the hemoglobin level in poultry, 1933, 105: 407.

COOK, S. F. and J. M. D. OLMSTED. The effect of asphyxia on the spleen of curarized and uncurarized decapitate cats, 1930, 92: 249.

COOK, S. F. and M. I. ROSE. The recovery of the spleen from contraction induced by exercise, 1930, 92: 240.

COOK, S. F. and N. M. SPILLES. Some factors regulating the utilization of splenic iron, 1931, 98: 626.

COOK, S. F. See HARMON, OGDEN and COOK, 1932, 100: 99.

COOMBS, H. C. Cardio-vascular changes in cats during experimentally produced convulsions, following section of the vagi and stellates, 1931, 97: 513.

The effect of partial vs. complete interruption of the proprioceptive pathway upon the form of respiratory contractions, 1930, 93: 640.

The effects of repeated electrical stimulation of the cortical motor area in the cat, 1932, 100: 64.

The production of experimental convulsions in the white rat, 1932, 101: 22.

COOMBS, H. C. and O. M. COPE. The action of acetylcholine in the arrest of experimentally induced convulsions in the cat, 1936, 116: 29.

COOMBS, H. C. and F. H. PIKE. Respiratory and cardio-vascular changes in the cat during convulsions of experimental origin, 1931, 97: 92.

The combined effects of convulsant agents and ligation of the head arteries in cats, 1932, 99: 521.

The combined effects of occlusion of the head arteries and the intravenous injection of absinth or camphor monobromide in cats, 1931, 97: 514.

The nervous control of respiration in kittens, 1930, 95: 681.

The relation of the minimal convulsive dose of absinth or camphor monobromide to conditions of high and low blood pressure in cats, 1931, 97: 514.

COOMBS, H. C. and D. S. SEARLE. Calcium and phosphorus of the blood serum during cerebral anemia, 1933, 105: 23.

The relationship of contracture of skeletal muscle to serum calcium in cats, 1934, 109: 23.

COOMBS, H. C. See COPE and COOMBS, 1936, 116: 30. See Ulrich and Coombs, 1930, 93: 694.

COONS, C. M. Basal metabolism in relation to nutritional status, 1931, 98: 698.
The basal metabolism of Oklahoma women, 1931, 98: 692.

COOPERMAN, N. R. Calcium and protein changes in serum during sleep and rest without sleep, 1936, 116: 531.

Protein and calcium changes in serum during sleep and rest without sleep, 1936, 116; 30.

The effect of caffein on body temperature and motility during sleep, 1933, 105: 24.

COOPERMAN, N. R., F. J. MULLIN and N. KLEITMAN. Studies on the physiology of sleep. XI. Further observations on the effects of prolonged sleep-lessness, 1934, 107: 589.

COOPERMAN, N. R. See Kleitman, Cooperman and Mullin, 1933, 105: 574.
See Kleitman, Cooperman and Mullin, 1936, 116: 92.
See Mullin, Kleitman and Cooperman, 1933, 106: 478.

COPE, O. M. The effect of exercise on ventricular minute-output time, 1930, 94: 140.

COPE, O. M. and H. C. COOMBS. Electrocardiograms of the effects of acetylcholine after division of the vagi, 1936, 116: 30.

COPE, O. M. See Coombs and Cope, 1936, 116: 29.

COPPÉE, G. See Du Buy and Coppée, 1936, 116: 282.

See KEMP and COPPÉE, 1936, 116:91.

See Peugnet and Coppée, 1936, 116: 120.

COPPÉE, G. E. See KEMP, COPPÉE and ROBINSON, 1937, 120: 304.

CORBEILLE, C. Changes in volume of the kidney in response to acoustic stimulation, 1930, 91: 499.

CORBEILLE, C. and E. J. BALDES. Changes in volume of the spleen in response to acoustic stimulation, 1930, 91: 505.

CORDILL, S. See EATON, CORDILL and GOUAUX, 1935, 113: 37.

CORDILL, S. C. See Eaton, Cordill and Gouaux, 1936, 116: 40.

See GOUAUX, CORDILL and EATON, 1936; 116: 62.

COREY, E. L. A possible correlation between early ossification and the blood elements of the albino rat, 1932, 101: 23.

Development of the fetal rat following electro-cautery of the brain, 1936, 115: 599.

Effects of cautery of the brain on the fetal rat, 1934, 109: 24.

Effects of cortico-adrenal extracts on the carbohydrate-metabolism of hypophysectomized rats, 1937, 119: 291.

Fetal and early postnatal cardiac activity in the rat, 1935, 113: 30.

Fetal carbohydrate metabolism following adrenalectomy, insulin and glucose experiments on the mother, 1935, 113: 450.

Further observations on electrocauterization of the fetal rat brain, 1936, 116: 31.

Growth and glycogen content of the fetal liver and placenta, 1935, 112: 263.

Growth and glycogen content of the fetal liver and placenta, 1935, 113: 31.

Maternal leucocyte changes following fetal death, 1932, 101: 23.

Observations on circulation in the fetal albino rat, 1932, 101: 24, 304.

The effect of cortico-adrenal extract injection on the oestrous cycle of the rat, 1933, 105: 24.

COREY, E. L. and S. W. BRITTON. Blood-cellular changes in adrenal insufficiency and the effects of cortico-adrenal extract, 1932, 102: 699.

Carbohydrate metabolism of hypophysectomized and hypophysoadrenalectomized rats, 1937, 118: 15.

The effect of cortico-adrenal extract on the blood-cellular elements, 1932, 101: 23.

The induction of precocious sexual maturity by cortico-adrenal extract, 1931,

99: 33.

The ovarian cycle and the adrenal glands, 1934, 107: 207.

CORI, C. F. and K. W. BUCHWALD. Effect of continuous intravenous injection of epinephrine on the carbohydrate metabolism, basal metabolism and vascular system of normal men, 1930, 95: 71.

CORI, C. F., G. T. CORI and K. W. BUCHWALD. The mechanism of epinephrine action. VI. Changes in blood sugar, lactic acid and blood pressure during continuous intravenous injection of epinephrine, 1930, 93: 273.

CORI, C. F., R. E. FISHER and G. T. CORI. The effect of epinephrine on arterial and venous plasma sugar and blood flow in dogs and cats, 1935, 114: 53.

CORI, C. F. See SCHMITT and CORI, 1933, 106: 339.

CORI, G. T. Effects of epinephrine on sugar utilization in animals under amytal anesthesia, 1930, 95: 285.

The mechanism of epinephrine action. VII. Changes in the glycogen, lactic acid and phosphate content of muscle, 1930, 94: 557.

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CORI, G. T.

See Cori, Cori and Buchwald, 1930, 93: 273.

See Cori, Fisher and Cori, 1935, 114: 53.

See Fisher and Cori, 1935, 112: 5.

See Russell and Cori, 1937, 119: 167.

CORNER, G. W. Influence of the ovarian hormones, oestrin and progestin, upon the menstrual cycle of the monkey, 1935, 113: 238.

The hormonal control of lactation. I. Non-effect of the corpus luteum. II. Positive action of extracts of the hypophysis, 1930, 95: 43.

See Makepeace, Corner and Allen, 1936, 115: 376.

CORSON, S. A. See Jacobs, Parpart and Corson, 1934, 109: 58.

CORTELL, R. See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, Mac-Calmont, Sharpe and Cortell, 1937, 119: 306.

COTTON, F. S. Does the ventricle exert a suction action in diastole, 1934, 107: 178.
Phasic variations of coronary flow, 1933, 105: 25.

COTTON, F. S. and D. B. DILL. On the relation between the heart rate during exercise and that of the immediate post-exercise period, 1935, 111: 554.

COTTON, F. S., S. R. M. REYNOLDS and C. J. WIGGERS. Methods for studying coronary flow with the heart in situ, 1933, 105: 25.

COTTON, F. S. See Bazett, Cotton, Laplace and Scott, 1934, 109: 6. See Bazett, Cotton, Laplace and Scott, 1935, 113: 312.

See Wiggers and Cotton, 1933, 106: 9, 597.
 Cotul, F. W. See Bodo, Cotui, Benaglia and Friedman, 1934, 109: 12.
 See Bodo, Cotui and Farber, 1932, 101: 10.

See Bodo, CoTui and Farber, 1933, 103: 18.

COURTNEY, A. See Higgins and Courtney, 1934, 109: 53.
COVELL, W. P. and L. J. BLACK. The cochlear response as an index to hearing, 1936, 116: 524.

COWAN, C. See Best, Charles and Cowan, 1937, 119: 272.

COWAN, D. W. The creatine content and the weight of the ventricles in experimental hyperthyroidism and after thyroparathyroidectomy, 1934, 109: 312.

COWAN, D. W. and H. N. WRIGHT. The interrelationship between blood sugar, blood calcium, and blood coagulability, 1932, 100: 40.

COWGILL, G. R. Studies in the physiology of vitamins. XVIII. Measurements of the vitamin B requirement in several species of animals, 1932, 101: 115.

COWGILL, G. R. and M. L. PALMIERI. Studies in the physiology of vitamins. XXI. The effect of water administration on the development of anorexia and polyneuritic symptoms in pigeons subsisting on a diet lacking the vitamin B complex, 1933, 104: 484.

Studies in the physiology of vitamins. XXII. The effect of experimentally-induced hyperthyroidism on the vitamin B requirement of pigeons, 1933, 105:

COWGILL, G. R. and T. L. RAKIETEN. The effect of intravenous injection of calcium lactate upon gastric secretion, 1930, 94: 165.

COWGILL, G. R., H. A. ROSENBERG and J. ROGOFF. Studies in the physiology of vitamins. XIV. The effect of administration of large amounts of water on the time required for development of the anorexia characteristic of a deficiency of the vitamin B complex, 1930, 95: 537.

Studies in the physiology of vitamins. XV. Some observations of the effect of administration of the antineuritic and heat stable factors on the anorexia characteristic of lack of the vitamin B complex, 1931, **96**: 372.

Studies in the physiology of vitamins. XVI. The effect of exercise on the time

COWGILL, G. R., H. A. ROSENBERG and J. ROGOFF.

required for the development of the anorexia characteristic of lack of undifferentiated vitamin B, 1931, 98: 589.

The anorexia characteristic of so-called vitamin B deficiency; is it due to a lack of the antineuritic factor, the antipellagra substance, or both?, 1930, 93: 641.

COWGILL, G. R., H. M. ZIMMERMAN and E. BURACK. Studies of vitamin G (B₂) deficiency in dogs, 1934, 109: 24.

COWGILL, G. R. See DANN and COWGILL, 1934, 109: 27.

See GILMAN and COWGILL, 1931, 97: 124, 525.

See GILMAN and COWGILL, 1931, 99: 172.

See GILMAN and COWGILL, 1932, 101: 42.

See GILMAN and COWGILL, 1933, 103: 143.

See GILMAN and COWGILL, 1933, 104: 476.

See Himwich, Goldfarb and Cowgill, 1932, 99: 689.

See Melnick and Cowgill, 1937, 119: 70.

See Melnick, Cowgill and Burack, 1936, 116: 109.

See Roe and Cowgill, 1935, 111: 530.

See Roe, Gilman and Cowgill, 1935, 110: 531.

See Rose, Stucky and Cowgill, 1930, 91: 531, 547, 554.

See Rose, Stucky and Cowgill, 1930, 92: 83.

See Rose, Stucky, Mendel and Cowgill, 1931, 96: 132.

See Smith and Cowgill, 1933, 105: 697.

See ZIMMERMAN, COWGILL, BUNNELL and DANN, 1934, 109: 440.

See ZIMMERMAN, Fox and COWGILL, 1934, 109: 115.

COX, W. V. See BECK and Cox, 1930, 93: 632.

COYLE, C. L. and T. E. BOYD. The absorption of tyramine from the intestine, 1932, 99: 317.

COYNE, A. See NECHELES and COYNE, 1934, 109: 80.

CRAIG, W. Mck. See Sheard, Horton and Craig, 1933, 105: 87.

See SHEARD, RYNEARSON and CRAIG, 1931, 97: 558.

CRAIGIE, E. H, See HENDERSON and CRAIGIE, 1936, 115: 520.

CRAMPTON, C. B. See Schneider and Crampton, 1934, 110: 14.

See Schneider and Crampton, 1935, 112: 202, 695.

See Schneider and Crampton, 1936, 114: 473.

See Schneider and Crampton, 1936, 117: 577.

CRANDALL, L. A. A study of possible mechanisms for gall-bladder contraction and evacuation, 1930, 93: 642.

CRANDALL, L. A., JR. and I. S. CHERRY. Effect of insulin and glycine on hepatic carbohydrate metabolism in unanesthetized normal, hypophysectomized, and adrenal denervated dogs, 1937, 119: 291.

The effect of dextrose on hepatic gluconeogenesis, 1936, 116: 32.

The regulation of blood lipase and diastase by the liver, 1931, 97: 515.

CRANDALL, L. A., JR. and G. M. ROBERTS. Blood volume after intravenous fluid in normal and Eck fistula dogs, 1932, 101: 24.

Increased water exchange after Eck fistula in dogs, 1935, 113: 31.

Increased water exchange following Eck fistula in dogs, 1936, 117: 318.

CRANDALL, L. A., JR., J. VANDOLAH and F. FITZ. Dextrose utilization in animals with Eck fistulae, 1934, 109: 25.

CRANDALL, L. A., JR. See CHERRY and CRANDALL, 1932, 100: 266.

See CHERRY and CRANDALL, 1937, 120: 52.

See LEDERER and CRANDALL, 1937, 118: 52.

See ROBERTS and CRANDALL, 1933, 106: 423.

CRANE, M. M. and H. N. SANFORD. The effect of variations in total calcium concentration upon the coagulation time of blood, 1937, 118: 703.

CREASER, C. W. and A. GORBMAN. Apparent specificity of the induced ovulation reaction in amphibia, 1935, 113: 32.

CRESCITELLI, F. See JAHN and CRESCITELLI, 1937, 119: 343.

CRIDER, J. O. and J. E. THOMAS. The influence of certain conditions in the duodenum on the rat of secretion and acidity of the gastric juice, 1932, 101: 25.

CRIDER, J. O. See THOMAS and CRIDER, 1933, 105: 95.

See THOMAS and CRIDER, 1935, 111: 124.

See Thomas and CRIDER, 1935, 113: 131.

See Thomas and CRIDER, 1936, 114: 603.

See THOMAS and CRIDER, 1936, 116: 154.

See THOMAS, CRIDER and MOGAN, 1934, 108: 683.

CRILE, G., O. GLASSER, M. TELKES and A. F. ROWLAND. Further studies of autosynthetic cells, 1932, 101: 26.

CRILE, G. W., M. TELKES and A. F. ROWLAND. Report of progress of research into the physical nature of cells (no conclusions are drawn), 1931, 97: 516.

CRIMM, P. D. and D. M. SHORT. Age variations in the polymorphonuclear leucocyte of the rat, 1934, 108: 324.

Qualitative blood cell changes in the rat due to vitamin A, 1935, 111: 397. Vitamin A deficiency in the dog, 1937, 118: 477.

CRISLER, G. Anoxemia and drug susceptibility, 1933, 105: 26.

Avitaminosis-A and the salivary conditioned reflex induced by morphine, 1936, 115: 215.

Methylene blue and anoxemia, 1935, 110: 580.

Parathyroid-extract and gastric emptying time, 1936, 116: 32.

Salivation is unnecessary for the establishment of the salivary conditioned reflex induced by morphine, 1930, 94: 553.

The effect of vitamin A deficiency on the salivary conditioned reflex induced by morphine, 1934, 109: 25.

CRISLER, G., W. T. BOOHER, E. J. Van LIERE and J. C. HALL. The effect of feeding thyroid on the salivary conditioned reflex induced by morphine, 1933, 103: 68.

CRISLER, G. and E. J. Van LIERE. The effect of anoxemia on the digestive movements of the stomach, 1931, 97: 516.

The effect of anoxemia on the emptying time of the stomach, 1932, 101: 26.

The effect of the vagus on the diastolic size of the heart and its bearing on the question of cardiac tonus, 1931, 98: 585.

CRISLER, G., E. J. Van LIERE and W. T. BOOHER. The effect of anoxemia on the digestive movements of the stomach, 1932, 102: 629.

CRISLER, G. See VAN LIERE and CRISLER, 1930, 93: 267, 695.

See Van Liere and Crister, 1930, 94: 162.

See Van Liere and Crisler, 1931, 97: 568.

See Van Liere and Crisler, 1932, 101: 100.

See VAN LIERE and CRISLER, 1933, 105: 96, 469.

See VAN LIERE and CRISLER, 1934, 109: 106.

See Van Liere, Crisler and Wiles, 1935, 111: 330.

CRITTENDEN, P. J. An electrocardiographic study of viscero-cardiac reflexes, 1932, 101: 26.

CRITTENDEN, P. J. and A. C. IVY. The nervous control of pancreatic secretion in the dog, 1937, 119: 724.

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CROCKER, B. F. and J. MARKOWITZ. A technic for the complete fistulization of the gut at any level of the gastrointestinal tract, 1936, 116: 33.

CROHN, N. See Soskin, Mirsky, Zimmerman and Crohn, 1935, 113: 124. See Soskin, Mirsky, Zimmerman and Crohn, 1935, 114: 110.

CROMER, S. P. Studies on the carotid sinus, 1931, 97: 517.

The respiratory rôle of visceral afferent impulses which travel through the stellate ganglia and the vagi, 1936, 116: 33.

CROMER, S. P. and A. C. IVY. Respiratory death from central vagus stimulation after removal of stellate ganglia, 1933, 104: 457.

CROMER, S. P. and R. H. YOUNG. On the existence of afferent respiratory impulses mediated by the stellate ganglia, 1932, 101: 27.

CROMER, S. P., R. H. YOUNG and A. C. IVY. On the existence of afferent respiratory impulses mediated by the stellate ganglia, 1933, 104: 468.

CROSBY, A. A. See HARTMAN, BROWNELL and CROSBY, 1931, 98: 674.

CROUCH, R. L. and W. H. ELLIOTT, JR. The hypothalamus as a sympathetic center, 1936, 115: 245.

CRUICKSHANK, E. W. H. and D. L. SHRIVASTAVA. The action of insulin on the storage and utilization of sugar by the isolated normal and diabetic heart, 1930. 92: 144.

CRUICKSHANK, E. W. H. and C. W. STARTUP. On glycolysis and oxidation of sugar in blood, incubated and circulating "in vitro," 1932, 99: 408.

CULBERTSON, J. T. The determination of the plasma volume and the blood volume of the rabbit by the injection of homologous anticrystallized-eggalbumin-serum, 1934, 107: 120.

CULLER, E. Acoustic value of the components of the auditory system in cats, 1936, 116: 33.

Motor conditioning in dogs, 1936, 116: 34.

CULLER, E. and G. FINCH. Effect upon cochlear function of intense tonal stimulation, 1935, 113: 32.

CULLER, E., G. FINCH and E. GIRDEN. Function of the round window in hearing, 1935, 111: 416.

CULLER, E. See Brogden and Culler, 1937, 119: 13.

See Brogden, Girden, Mettler and Culler, 1936, 116: 252.

CULLER, E. A., J. WILLMANN and F. A. METTLER. Mapping the cochlea, 1937, 119: 292

CULLER, E. A. See Ades, Mettler and Culler, 1937, 119: 257.

CULMER, C. U. and A. J. ATKINSON. Hydrogen peroxide as a depressant of gastric acidity, 1937, 119: 293.

CULPEPPER, W. L. See BARNES, CULPEPPER and HUTTON, 1935, 113: 7.

CULVER, R. See GESELL, CULVER, BRICKER and MAGEE, 1935, 113: 49.

CUNNINGHAM, O. J., J. H. RAND, 3RD and E. C. WECKESSER. Relation of the oxygen and nitrogen content of cerebrospinal fluid to barometric pressure, 1934, 107: 164.

CURTIS, G. M. and L. E. BARRON. Blood iodine after total thyroidectomy in man, 1934, 109: 26.

CURTIS, G. M. See BARRON and CURTIS, 1937, 119: 266.

See Barron and Curtis, 1937, 120: 356.

See Barron, Curtis and Haverfield, 1935, 113: 8.

See Barron, Curtis and Haverfield, 1936, 116: 6.

See HITCHCOCK and CURTIS, 1936, 116: 76.

See Puppil and Curtis, 1936, 116: 123.

CURTIS, Q. F. See Liddell, Sutherland, Parmenter, Curtis and Anderson, 1937, 119: 361.

CUTHBERT, F. P., A. C. IVY, B. L. ISAACS and J. GRAY. The relation of pregnancy and lactation to extirpation diabetes in the dog, 1936, 115: 480.

CUTHBERT, F. P. See DE TAKATS and CUTHBERT, 1932, 102: 614.

CUTLER, J. T. See MINOT and CUTLER, 1930, 93: 674.

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CUTLER, O. I. and J. H. LEWIS. The time at which case in begins to be formed in the breast during pregnancy, 1933, 103: 643.

CUTTER, R. D. See CUTTING and CUTTER, 1935, 113: 150.
See CUTTING and CUTTER, 1935, 114: 204.

CUTTING, C. C. See Hinsey and Cutting, 1932, 102: 183.

See Hinsey and Cutting, 1933, 105: 525, 535.

CUTTING, W. C. and R. D. CUTTER. Plasma protein regeneration after bleeding in the rat, 1935, 114: 204.

Total plasma protein in normal and fasting rats, 1935, 113: 150.

CUTTING, W. C. See HALL, FIELD, SAHYUN, CUTTING and TAINTER, 1933, 106: 432.
CUTULY, E., D. R. McCULLAGH and E. C. CUTULY. Effects of androgenic substances in hypophysectomized rats, 1937, 119: 121.

CUTULY, E. C. See CUTULY, McCULLAGH and CUTULY, 1937, 119: 121. CUYLER, W. K. See Walsh, Cuyler and McCullagh, 1934, 107: 508.

D

DA COSTA, E. and A. J. CARLSON. The effect of feeding desiccated thyroid upon the sexual maturation of the albino rat, 1933, 104: 247.

DA COSTA, E. See Davis, Da Costa and Hastings, 1934, 110: 187.

DAGGS, R. G. Lactation as influenced by different sources of protein in the diet, 1930, 93: 642.

DAGGS, R. G. and A. G. EATON. Metabolic studies in partially hypophysectomized dogs, 1933, 106: 299.

DAGGS, R. G., W. R. MURLIN and J. R. MURLIN. The effect of hexylresorcinol upon the absorption of insulin from the gastrointestinal tract of dogs, 1937, 120: 744.

DAGGS, R. G. and H. C. H. WARDLAW. A study of the conversion of fat to carbohydrate in the germinated castor bean by means of a modified oxycalorimeter, 1932, 101: 27.

DAGGS, R. G. See EATON and DAGGS, 1933, 105: 29.

DALAND, G. A. See CASTLE and DALAND, 1937, 120: 371.

D'ALELIO, G. F. See MACHT and D'ALELIO, 1936, 116: 104.

DALTON, A. J. See ZORN and DALTON, 1937, 119: 627.

DALY, C. and D. B. DILL. Salt economy in humid heat, 1937, 118: 285.

DAMESHEK, W. and J. LOMAN. Direct intra-arterial blood-pressure readings in man, 1932, 101: 140.

D'AMOUR, F. See IHRKE and D'AMOUR, 1931, 96: 289.

See Kunde, D'Amour, Gustavson and Carlson, 1931, 96: 677.

D'AMOUR, F. E. A histological study of the action of estrin in terminating pregnancy, 1934, 109: 26.

Studies on black widow spider venom, 1935, 113: 32.

D'AMOUR, F. E. and M. C. D'AMOUR. Studies in the action of estrin in pregnancy, 1933, 105: 26.

D'AMOUR, F. E. and D. FUNK. The rat in the assay of cortin, 1937, 119: 293.

D'AMOUR, F. E. and R. G. GUSTAVSON. A biologic assay of "international standard" estrin and of some commercial estrin preparations, 1936, 116: 34.

D'AMOUR, F. E. See D'AMOUR and D'AMOUR, 1935, 113: 33.

See D'AMOUR, D'AMOUR and DUTCHER, 1937, 119: 294.

See HALPERN and D'AMOUR, 1936, 115: 229.

See Juhn, D'Amour, Carlson and Gustavson, 1930, 95: 630.

See Juhn, D'Amour and Womack, 1930, 95: 641.

D'AMOUR, M. C. and F. E. D'AMOUR. Studies on urinary hebin, 1935, 113: 33.

D'AMOUR, M. C., F. E. D'AMOUR and J. D. DUTCHER. The assay of gonad stimulating substances, 1937, 119: 294.

D'AMOUR, M. C. See D'Amour and D'Amour, 1933, 105: 26.

See Keller, D'Amour and Hare, 1934, 109: 63.

See KELLER, HARE and D'AMOUR, 1933, 105: 61.

DANDY, W. E. Changes in our conceptions of localization of certain functions in the brain, 1930, 93: 643.

DANFORTH, D. N. and F. GORHAM. Placental histaminase, 1937, 119: 294.

DANIEL, J. and H. A. ABRAMSON. The effect of alcohol on the electric mobility of gelatin, 1932, 101: 28.

DANIEL, J. See ABRAMSON and DANIEL, 1931, 97: 501.

DANIELS, L. E. See BALDES and DANIELS, 1931, 97: 502.

DANIELSON, W. H. See Muntwyler, Myers, Danielson and Zorn, 1935, 113: 186.

DANN, M. Respiratory metabolism during premortal rise in nitrogen excretion, 1932, 101: 27.

DANN, M. and W. H. CHAMBERS. The metabolism of glucose administered to the fasting dog, 1930, 93: 643.

DANN, M. and G. R. COWGILL. The vitamin B requirement of female albino rats for maintenance and growth, 1934, 109: 27.

DANN, M. See CHAMBERS and DANN, 1931, 97: 510.

See CHAMBERS and DANN, 1933, 105: 18.

See ZIMMERMAN, COWGILL, BUNNELL and DANN, 1934, 109: 440.

DARROW, C. W. Systolic and diastolic blood pressure continuously recorded: apparatus and applications, 1937, 119: 295.
See Freeman and Darrow, 1935, 111: 55.

DAVENPORT, H. A. See Chor, Dolkart and Davenport, 1937, 118: 580.
See Douglass, Davenport, Heinbecker and Bishop, 1934, 110: 165.

DAVENPORT, L. F., M. N. FULTON, H. A. VAN AUKEN and R. J. PARSONS.

The creatinine clearance as a measure of glomerular filtration in dogs with particular reference to the effect of diuretic drugs, 1934, 108: 99.

DAVID, N. A. See Van Liere, David and Lough, 1935, 113: 134.
See Van Liere, David and Lough, 1936, 115: 239.

DAVIS, B. L., JR. and J. M. LUCK. The effect of acetylcholine and other constituents of the suprarenal gland upon blood sugar and amino acids, 1936, 117: 542.

DAVIS, H. and P. A. DAVIS. Fatigue in skeletal muscle in relation to the frequency of stimulation, 1930, 93: 644.

Fatigue in skeletal muscle in relation to the frequency of stimulation, 1932, 101:

DAVIS, H. and A. J. DERBYSHIRE. The mechanism of auditory masking, 1935, 113:34.

The relation of auditory action potentials to the electrical response of the cochlea, 1934, 109: 28.

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DAVIS, H., A. J. DERBYSHIRE, M. H. LURIE and L. J. SAUL. The electric response of the cochlea, 1934, 107: 311.

DAVIS, H., A. J. DERBYSHIRE and L. J. SAUL. Further analysis of the electrical phenomena of the auditory mechanism, 1933, 105: 27.

DAVIS, H., F. A. GIBBS and E. L. GARCEAU. The human electroencephalogram 1935, 113: 34.

DAVIS, H., A. ROSENBLUETH and B. REMPEL. Interpretation of the electrogram of certain smooth muscles, 1936, 116: 35.

DAVIS, H. and L. J. SAUL. The frequency of impulses in the auditory pathways, 1932, 101:28.

DAVIS, H. and S. S. STEVENS. The measurement of combination tones in the electrical activity of the cochlea, 1937, 119: 296.

DAVIS, H. See BEAMAN and DAVIS, 1931, 98: 399.

See Derbyshire and Davis, 1935, 113: 35, 476.

See Forbes, Cattell and Davis, 1935, 112: 152.

See Forbes, Davis and Lambert, 1930, 93: 649. See Forbes, Davis and Lambert, 1930, 95: 142.

See Garceau and Davis, 1934, 107: 305.

See Gibbs and Davis, 1935, 113: 49.

See Knoefel and Davis, 1933, 104: 81.

See LEESE and Davis, 1932, 101: 68.

See Reboul, Davis and Friedgood, 1937, 120: 724.

See Reboul, Friedgood and Davis, 1937, 119: 387. See Rosenblueth, Davis and Rempel, 1936, 116: 131, 387.

DAVIS, H. A. and L. R. DRAGSTEDT. The relative significance of electrolyte concentration and tissue reaction in water metabolism, 1934, 109: 28.

The relative significance of electrolyte concentration and tissue reaction in water metabolism, 1935, 113: 193.

DAVIS, J. See Fahr, Davis, Kerkhof, Hallock and Giere, 1932, 101: 33, 376. See Fahr, Davis and Spittler, 1931, 96: 426.

DAVIS, J. E. The effect of advancing age on the oxygen consumption of rats, 1937, 119: 28.

Effect of physical training on the osmotic resistance of erythrocytes, 1937, 119:

DAVIS, J. E. and N. BREWER. Effect of physical training on blood volume, hemoglobin, alkali reserve and osmotic resistance of erythrocytes, 1935, 113: 586.

DAVIS, J. E., E. DA COSTA and A. B. HASTINGS. The effect of thyroxin on the tissue metabolism of excised frog heart, 1934, 110: 187.

DAVIS, J. E. and A. B. HASTINGS. The effect of thyroxin on the tissue metabolism of excised Limulus heart, 1936, 114: 618.

The measurement of the oxygen consumption of immature rats, 1934, 109: 683. The relationship of the adrenal and thyroid glands to excised muscle metabolism, 1933, 105: 110.

DAVIS, L. and L. J. POLLOCK. The effect of atropin upon skeletal muscle tonus, 1930, 93: 379.

DAVIS, L. See Pollock and Davis, 1930, 92: 625. See Pollock and Davis, 1931, 98: 47.

DAVIS, M. E. See MACHT and DAVIS, 1932, 101: 71.

See Macht and Davis, 1932, 102: 138. See Macht and Davis, 1933, 105: 68, 69.

See Macht and Davis, 1934, 109: 67.

See Macht and Davis, 1935, 113: 94. See Macht and Davis, 1936, 116: 105. DAVIS, P. A. See Davis and Davis, 1930, 93: 644.
See Davis and Davis, 1932, 101: 339.

DAVIS, W. A. See GRANIT and DAVIS, 1931, 98: 644.

DAVISON, F. R. Tissue extracts and blood coagulation, 1937, 118: 633.

DAWSON, W. T. Embolic decerebration with lycopodium and lampblack mixture, 1930, 93: 645.

DAWSON, W. T., D. DUNCAN, E. D. HOLLAR and C. H. TAFT, JR. Trauma in strychnine poisoning, 1935, 113: 34.

DECHERD, G. and **M. B. VISSCHER.** The relative importance of the performance of work and the initial fiber length in determining the magnitude of energy liberation in the heart, 1933, **103**: 400.

DE EDS, F. See Kahler, DE EDS, ROSENTHAL and VOEGTLIN, 1929, 91: 225.

DEES, J. E. See LANGWORTHY, LEWIS, DEES and HESSER, 1936, 116: 95.

DE GROAT, A. See GREEN and DE GROAT, 1935, 112: 488.

See McDonald, Shepeard, Green and De Groat, 1935, 112: 227.

DEGROAT, A. F. See Green, Degroat and McDonald, 1935, 110: 513.

DEISSLER, K. and G. M. HIGGINS. The extrahepatic biliary tract during ana-

phylaxis, 1935, 112: 430.

DEISSLER, K. See Higgins, Deissler and Mann, 1935, 112: 461.

D'ELSEAUX, F. C. and M. L. PETERMANN. The physiological response to high concentrations of carbon dioxide and the nature of functional mechanisms involved. II. Alterations in respiratory activity, 1934, 109: 29.

DELVECCHIO, J. J. See Walters, Delvecchio and Hertzman, 1937, 119: 418.

de MEIO, R. H. See DILL, EDWARDS and DE MEIO, 1935, 111: 9.

DEMPSEY, E. W. Follicular growth rate and ovulation after various experimental procedures in the guinea pig, 1937, 120: 126.

DEMPSEY, E. W., R. HERTZ and W. C. YOUNG. The experimental induction of oestrus (sexual receptivity) in the normal and ovariectomized guinea pig, 1936, 116: 201.

DEMPSEY, E. W., H. I. MYERS, W. C. YOUNG and D. B. JENNISON. Absence of light and the reproductive cycle in the guinea pig, 1934, 109: 307.

DEMPSEY, E. W. See Young, Myers and Dempsey, 1933, 105: 393.

de NÓ, R. L. The interaction of the corneal reflex and vestibular nystagmus, 1933, 103: 704.

DeNOTE, A. See GRUBER and DENOTE, 1935, 111: 564.

DENSTEDT, O. See Kutz, Selye, Denstedt, Bachman, Thomson and Collip, 1934, 109: 66.

DEOBALD, H. J. and C. A. ELVEHJEM. The effect of feeding high amounts of soluble iron and aluminum salts, 1935, 111: 118.

DE PENCIER, M. T., S. SOSKIN and C. H. BEST. The effect of liver on the blood sugar level and on the sugar excretion of depancreatized dogs, 1930, 94: 548.
 DEPP, O. R. See Sherwood, Birge, Depp and Dotson, 1937, 119: 403.

DERBYSHIRE, A. J. and H. DAVIS. The action potentials of the auditory nerve, 1935, 113: 476.

The probable mechanism for stimulation of the auditory nerve by the organ of Corti, 1935, 113: 35.

DERBYSHIRE, A. J., B. REMPEL, A. FORBES and E. F. LAMBERT. The effects of anesthetics on action potentials in the cerebral cortex of the cat, 1936, 116: 577.

DERBYSHIRE, A. J. See Davis and Derbyshire, 1934, 109: 28.

See Davis and Derbyshire, 1935, 113: 34.

See Davis, Derbyshire, Lurie and Saul, 1934, 107: 311.

DERBYSHIRE, A. J.

See Davis, Derbyshire and Saul, 1933, 105: 27.

See Forbes, Derbyshire, Rempel and Lambert, 1935, 113: 43.

See Forbes, Smith, Lambert, Caveness and Derbyshire, 1933, 103: 131.

See SIMPSON and DERBYSHIRE, 1934, 109: 99.

DERBYSHIRE, A. J., JR. See Haterius and Derbyshire, 1937, 119: 329.

DE SAVITSCH, E. See HANSON and DE SAVITSCH, 1934, 109: 48.

DE TAKATS, G. and F. P. CUTHBERT. The effect of coeliac ganglionectomy on the sugar tolerance of dogs, 1932, 102: 614.

DETRICK, J. See GEMMILL, BOOTH, DETRICK and SCHIEBEL, 1931, 96: 265.

DEUTSCH, H., C. I. REED and H. C. STRUCK. The rôle of the thyroid in the calorigenic action of vitamin D, 1936, 117: 1.

DEUTSCH, H. See REED, DEUTSCH and STRUCK, 1936, 116: 126.

DEXTER, L. See PROGER and DEXTER, 1934, 109: 688.

DeYOUNG, V. R., H. A. RICE and A. H. STEINHAUS. Studies in the physiology of exercise. VII. The modification of colonic motility induced by exercise and some indications for a nervous mechanism, 1931, 99: 52.

DeYOUNG, V. R. See STEINHAUS and DEYOUNG, 1931, 97: 564.

DIDDLE, A. W. See Allen, Diddle, Burford and Gardner, 1936, 117: 381.

See Allen, Diddle and Elder, 1935, 110: 593.

DILL, D. B., A. V. BOCK and H. T. EDWARDS. Mechanisms for dissipating heat in man and dog, 1933, 104: 36.

DILL, D. B., E. H. CHRISTENSEN and H. T. EDWARDS. Gas equilibria in the lungs at high altitudes, 1936, 115: 530.

DILL, D. B., H. T. EDWARDS and R. H. de MEIO. Effects of adrenalin injection in moderate work, 1935, 111: 9.

DILL, D. B., H. T. EDWARDS and W. H. FORBES. Tobacco smoking in relation to blood sugar, blood lactic acid and metabolism, 1934, 109: 118.

DILL, D. B., H. T. EDWARDS and S. MEAD. Blood sugar regulation in exercise, 1935, 111: 21.

DILL, D. B. See Cotton and Dill, 1935, 111: 554.

See Daly and Dill, 1937, 118: 285.

See DWORKIN, BACQ and DILL, 1931, 96: 308.

See Edwards, Margaria and Dill, 1934, 108: 203.

See Edwards, Richards and Dill, 1931, 98: 352.

See FLORKIN, EDWARDS and DILL, 1930, 94: 459.

See Margaria, Edwards and Dill, 1933, 106: 689.

See Myerson, Loman, Edwards and Dill, 1931, 98: 373.

See NEWMAN, DILL, EDWARDS and WEBSTER, 1937, 118: 457.

DILLE, J. M. Factors governing the distribution of barbiturates, 1935, 113: 35.
The effect of barbiturates on the embryo and on pregnancy, 1934, 109: 29.

See KOPPANYI, MURPHY, DILLE and KROP, 1934, 109: 64.

DILLMAN, L. M. See THACKER and DILLMAN, 1931, 97: 567.

DIMMITT, L. L. See HELLEBRANDT and DIMMITT, 1934, 107: 364.

DINGLE, J. See Hoff, Dingle and Nahum, 1937, 119: 337.

DINGLE, W. T. See Code, Dingle and Moorhouse, 1936, 115: 249.

DIX, A. S. See BARNES and DIX, 1936, 116: 6.

DOCK, W. The rate of oxygen utilization by rat kidneys at different rates of urea exerction, 1933, 106: 745.

The relative increase in metabolism of the liver and of other tissues during protein metabolism in the rat, 1931, 97: 117.

DOKTORSKY, A. See KLEITMAN and DOKTORSKY, 1933, 104: 340.

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DOLES, E. A. See Hinsey, Ranson and Doles, 1930, 95: 573.

DOLKART, R. E. See CHOR and DOLKART, 1936, 117: 626.

See CHOR, DOLKART and DAVENPORT, 1937, 118: 580.

DOMINGUEZ, R. On the renal excretion of urea, 1935, 112: 529.

On the renal excretion of urea, 1935, 113: 36.

DOMINGUEZ, R., H. GOLDBLATT and E. POMERENE. Kinetics of the elimination of substances injected intravenously (experiments with creatinine), 1935, 114: 240.

Kinetics of the excretion and utilization of xylose, 1937, 119: 429.

DOMINGUEZ, R. and E. POMERENE. On the excretion of xylose by man, 1934, 109: 29.

DOMM, L. V. See Juhn and Domm, 1930, 94: 656.

DONAL, J. S. See Starr, Donal, Margolies, Shaw, Collins and Gamble, 1934, 109: 101.

DONAL, J. S., JR. A convenient method for the determination of the approximate cardiac output in man, 1936, 116: 35.

DONAL, J. S., JR. and C. J. GAMBLE. The cardiac output in man. Changes in alveolar oxygen and carbon dioxide tensions during rebreathing and the bearing of these upon the triple extrapolation method of estimating cardiac output, 1936, 116: 495.

The estimation of ethyl iodide by the katharometer in determinations of cardiac output in man, 1933, 105: 28.

DONAL, J. S., JR., C. J. GAMBLE and R. SHAW. The cardiac output in man, 1934, 109: 666.

DONAL, J. S., JR. See McGLONE, GOLDSCHMIDT and DONAL, 1934, 109: 72.

DONALD, J. M. Studies on carbohydrate metabolism following denervation of the liver, 1931, 98: 605.

DONELSON, E. and I. G. MACY. Human milk studies. XI. Vitamin G (B₂) content of mixed milk, 1932, 100: 420.

DOOLEY, M. S. See ROBB, DOOLEY, HISS and ROBB, 1935, 113: 110.

DOTSON, H. B. See SHERWOOD, BIRGE, DEPP and DOTSON, 1937, 119: 403.

DOTTI, L. B. The response of the rabbit to insulin, 1936, 114: 538.

See Riddle, Dotti and Smith, 1937, 119: 389.

DOTY, J. R. and A. G. EATON. The metabolism of lysine: studies on the heat production and blood and urine constituents after administration of d-lysine monohydrochloride to the dog, 1937, 119: 296.

DOTY, J. R. See EATON and DOTY, 1937, 119: 301.

DOUGLASS, T. C., H. A. DAVENPORT, P. HEINBECKER and G. H. BISHOP. Vertebrate nerves: some correlations between fiber size and action potentials, 1934, 110: 165.

DOW, P. and W. F. HAMILTON. Further studies on the arterial pulse, 1937, 119: 297.

Studies on aortic velocity and the arterial pulse, 1936, 116: 36.

DOW, P. See Hamilton, Woodbury and Dow, 1937, 119: 326.

DOW, R. S. The effects of removal of vestibular parts of the cerebellum in primates, 1937, 119: 298.

The relation of the paraflocculus to the movements of the eyes, 1935, 113: 296.

DOWLING, A. S. See Spies and Dowling, 1935, 114: 25.

DRABKIN, D. L. and T. FITZ-HUGH, JR. A comparison of the normal blood picture of rats of two different colonies reared upon different stock rations, 1934, 108: 61. DRABKIN, D. L. and I. S. RAVDIN. The mechanism of convulsions in insulin hypoglycemia, 1937, 118: 174.

DRAGSTEDT, C. A. Ossification in the absence of the parathyroid glands, 1931, 97: 517.

DRAGSTEDT, C. A. and E. GEBAUER-FUELNEGG. Observations on an anaphylatoxin in anaphylactic shock, 1932, 101: 29.

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Studies in anaphylaxis. I. The appearance of a physiologically active substance during anaphylactic shock, 1932, 102: 512.

DRAGSTEDT, C. A. and J. E. KEARNS, JR. Heterotopic bone formation in thyroparathyroidectomized dogs, 1932, 100: 262.

DRAGSTEDT, C. A. and M. A. MILLS. The removal of intravenously injected bilirubin from the blood stream in the dog, 1937, 119: 713.

DRAGSTEDT, C. A. and S. E. OWEN. The mechanism of the diuretic action of secretin preparations, 1931, 97: 286.

DRAGSTEDT, C. A. See Gebauer-Fuelnegg and Dragstedt, 1932, 102: 520.
See Mullenix, Dragstedt and Bradley, 1933, 105: 443.

DRAGSTEDT, L. R. The effect of diverting the adrenal vein blood into the portal vein on the blood sugar of dogs, 1934, 108: 42.

DRAGSTEDT, L. R. and J. C. ELLIS. The effect of diverting adrenal vein blood into the portal vein on blood sugar, 1931, 97: 517.

The fatal effect of the total loss of gastric juice, 1930, 93: 407.

DRAGSTEDT, L. R. and H. E. HAYMOND. The cause of death in experimental acute pancreatitis, 1932, 101: 29.

DRAGSTEDT, L. R. and W. B. MATTHEWS. The digestion of living tissues by gastric and pancreatic juice, 1933, 105: 29.

DRAGSTEDT, L. R., R. R. RISK and A. A. JOHNSON. The effect of the continuous intravenous injection of Ringer's solution on the blood chemistry of thyroparathyroidectomized dogs, 1933, 105: 643.

DRAGSTEDT, L. R., J. VAN PROHASKA and H. P. HARMS. Observations on a substance in pancreas (a fat metabolizing hormone) which permits survival and prevents liver changes in depancreatized dogs, 1936, 116: 36.

Observations on a substance in pancreas (a fat metabolizing hormone) which permits survival and prevents liver changes in depancreatized dogs, 1936, 117: 175.

The effect of the continuous intravenous injection of epinephrine on the blood pressure, 1937, 119: 298.

DRAGSTEDT, L. R. and R. A. WOODBURY. The relation of bile to the secretion of pancreatic juice, 1934, 107: 584.

DRAGSTEDT, L. R. See Davis and Dragstedt, 1934, 109: 28.

See Davis and Dragstedt, 1935, 113: 193. See Ellis and Dragstedt, 1930, 93: 647.

See Harms, Van Prohaska and Dragstedt, 1936, 116: 70.

See Harms, Van Prohaska and Dragstedt, 1936, 117: 160.

See Montgomery and Dragstedt, 1931, 97: 547.

See VAN PROHASKA, DRAGSTEDT and HARMS, 1936, 117: 166.

See Van Prohaska, Harms and Dragstedt, 1936, 116: 122.

DRESBACH, M. Observations on the emetic, respiratory and certain other actions of strophanthidin in the cat, 1936, 116: 37.

The emetic and respiratory actions of strophanthidin in the cat, 1936, 116: 37. DRESBACH, M. and F. S. RANDLES. The effect of sodium amytal on the blood

sugar level in the albino rat and the dog, 1931, 97: 518.

DRESBACH, M. See Hamilton, Dresbach and Hamilton, 1937, 118: 71.

DREWYER, G. E. and A. C. IVY. On the presence of cholecystokinin in the human and rabbit intestine, 1930, 94: 285.

DREWYER, G. E. See Ivy, DREWYER and ORNDOFF, 1930, 93: 661.

See Ivy, Kloster, Drewyer and Lueth, 1930, 95: 35.

See IVY, KLOSTER, LUETH and DREWYER, 1929, 91: 336.

DRINKER, C. K. and M. E. FIELD. Observations on the lymphatics in the web of the frog, 1932, 101: 30.

Results obtained in recent quantitative studies on lymph production, 1936, 116: 37.

The identity of lymph and tissue fluid, 1931, 97: 518.

The lymph capillaries in the web of the frog, 1932, 100: 642.

The protein content of mammalian lymph and the relation of lymph to tissue fluid, 1931, 97: 32.

DRINKER, C. K., M. E. FIELD, J. W. HEIM and O. C. LEIGH, JR. The composition of edema fluid and lymph in edema and elephantiasis resulting from lymphatic obstruction, 1934, 109: 572.

DRINKER, C. K., M. E. FIELD and J. HOMANS. The experimental production of lymph edema and elephantiasis, 1934, 108: 509.

The experimental production of lymph edema and elephantiasis, 1934, 109: 30.

DRINKER, C. K., M. E. FIELD, H. K. WARD and C. LYONS. Increased susceptibility to local infection following blockage of lymph drainage, 1935, 112: 74.

DRINKER, C. K. See FIELD and DRINKER, 1930, 93: 138.

See FIELD and DRINKER, 1931, 97: 40.

See FIELD and DRINKER, 1931, 98: 66, 378.

See FIELD and DRINKER, 1934, 109: 35.

See FIELD and DRINKER, 1936, 116: 49, 597.

See FIELD, LEIGH, HEIM and DRINKER, 1934, 110: 174.

See Heim, Field and Drinker, 1933, 105: 47.

See LOEWEN, FIELD and DRINKER, 1931, 98: 70.

See Marble, Field, Drinker and Smith, 1934, 109: 467.

See White, Field and Drinker, 1933, 103: 34.

DRURY, D. R. Sugar utilization in eviscerated rabbits, 1935, 111: 289.

DRURY, D. R., H. C. BERGMAN and P. O. GREELEY. The glucose utilization of phloridzinised dogs after hepatectomy, 1936, 117: 323.

DRURY, D. R. and W. T. SALTER. The effect of glucose derivatives upon animals (rabbits) following hepatectomy, 1934, 107: 406.

DUBIN, M. See Gordon and Dubin, 1934, 107: 704.

See Ponder, Dubin and Gordon, 1934, 108: 125.

DUBNER, H., R. W. GERARD and H. KOBRAK. Objective measures of hearing, 1936. 116: 38.

DUBNER, H. See Kobrak, Lindsey, Perlman and Dubner, 1936, 116: 93.

DUBOIS, D. See Himwich, Fazikas, Nahum, Dubois, Greenburg and Gilman, 1934, 110: 19.

See Himwich, Goldfarb, Rakeiten, Nahum and Dubois, 1934, 110: 352.

See Himwich, Nahum, Rakieten, Fazikas and Dubois, 1932, 101: 57.

DU BUY, H. G. The electrical phenomena of the crustacean nerve-muscle system, 1935, 114: 224.

The physiology of an invertebrate smooth muscle (retractor of Thyone bryareus), 1936, 116: 22.

DU BUY, H. G. and G. COPPÉE. The electric phenomena of the crayfish claw during repetitive stimulation, 1936, 116: 282. DUKES, H. H. Studies on the energy metabolism of the hen, 1936, 116: 38.

DUKES, H. H. and J. SAMPSON. Intestinal motility in the horse; a motion picture, 1936, 116: 39.

Motility of the large intestine of the ruminant, 1937, 119: 299.

DUKES, H. H. and L. H. SCHWARTE. The hemoglobin content of the blood of fowls, 1931, 96: 89.

DUNCAN, D. See Dawson, Duncan, Hollar and Taft, 1935, 113: 34.

DUNN, F. L. and J. P. TOLLMAN. A new electrocardiograph, 1935, 113: 140.

DUNN, H. L. and W. M. BOOTHBY. Significance of variation in basal metabolic rate determinations, 1932, 101: 30.

DUNN, H. L. See Berkson, Boothby and Dunn, 1935, 113: 11.

See BOOTHBY, BERKSON and DUNN, 1936, 116: 468.

See Boothby, Dunn and Berkson, 1935, 113: 14.

DUNNING, F. See Macht, Dunning and Stickels, 1932, 101: 70.

DUNNING, H. A. B., JR. See Macht and Dunning, 1934, 109: 68.

See Macht and Dunning, 1937, 119: 367.

DURRANT, E. P. Effect of ovarian extract on motility of rhythmically contracting uterus, 1930, 93: 645.

Effects of ovarian extracts on voluntary activity of white rat, 1930, 93: 646.

Influence of the female white rat on bodily activity of the male, 1935, 113: 37.

Relation of hysterectomy of long standing to voluntary activity in the white rat, 1931, 97: 519.

DURRANT, E. P. and S. ROSENFELD. Activity of the isolated uterus and its relation to the oestrous cycle in the albino rat, 1931, 98: 153.

DURRANT, E. P. See ROSENFELD and DURRANT, 1932, 99: 552.

DUSSER de BARENNE, J. G. Sensori-motor cortex and thalamus opticus, 1937, 119: 265.

Simultaneous facilitation and extinction of motor response to stimulation of a single cortical focus, 1936, 116: 39.

Studies in laminar corticology, 1934, 109: 30.

DUSSER de BARENNE, J. G. and W. S. McCULLOCH. Local stimulatory inactivation within the cerebral cortex, the factor for extinction, 1937, 118: 510.

Some effects of laminar thermocoagulation upon the local action potentials of the cerebral cortex of the monkey, 1936, 114: 692.

DUSSER de BARENNE, J. G. and Y. D. KOSKOFF. Flexor rigidity of the hind legs and priapism in the "secondary" spinal preparations of the male cat, 1932, 102: 75.

Further observations on flexor rigidity in spinal animals, 1933, 105: 28.

Further observations on flexor rigidity in the hindlegs of the spinal cat, 1934, 107: 441.

The release of a copulation reflex pattern in the "secondary" spinal cat, 1932, 101: 30.

DUSSER de BARENNE, J. G. and A. A. WARD, JR. Reflex inhibition of the kneejerk from intestinal organs, 1937, 120: 340.

DUSSER de BARENNE, J. G. See HOVLAND and DUSSER DE BARENNE, 1936, 116: 79.

See Lane, McCulloch, Prescott and Dusser de Barenne, 1935, 113: 85.

See McCulloch and Dusser de Barenne, 1935, 113: 97.

See McCulloch and Dusser de Barenne, 1936, 116: 99.

DUTCHER, J. D. See D'AMOUR, D'AMOUR and DUTCHER, 1937, 119: 294.

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DWORKIN, S. Alimentary motor conditioning and pitch discrimination in dogs, 1935, 112: 323.

Conditioned motor reflexes in cats, 1934, 109: 31.

Insulin and heart rate after sympathectomy and vagotomy, 1931, 96: 311.

Observations on the central control of shivering and of heat regulation in the rabbit, 1930, 93: 227.

Pitch and intensity discrimination by cats, 1935, 112: 1.

The mechanism of adrenalin glycemia, 1930, 93: 646.

The response of sympathectomized animals to insulin, 1931, 98: 467.

DWORKIN, S., Z. M. BACQ and D. B. DILL. The effect of regional sympathectomy upon muscle glycogen, 1931, 96: 308.

DWORKIN, S., W. BOURNE and B. RAGINSKY. Conditioning neurosis treated by sedatives, 1936, 116: 40.

DWORKIN, S. and M. FLORKIN. The effect of cooling upon chronaxie and refractory period of nerve, 1930, 93: 646.

The effect of temperature upon chronaxie and recovery period of nerve, 1930, 95: 139.

DWORKIN, S. See Bacq and Dworkin, 1930, 93: 629.

See Bacq and Dworkin, 1930, 95: 605, 614.

See RING, DWORKIN and BACQ, 1931, 97: 315.

See SUTHERLAND and DWORKIN, 1932, 101: 97.

DYE, J. A. On the question of duplication of sympathetic innervation to bilaterally innervated structures, 1936, 114: 443.

The action of thyroxin on tissue respiration, 1933, 105: 518.

The exhaustibility of the sympathin stores, 1935, 113: 265.

The glycogenolytic function of the liver in the absence of its assumed humoral and nervous control, 1937, 119: 299.

See Chidsey and Dye, 1935, 111: 223,

DYKSHORN, S. W. See RIDDLE, BATES and DYKSHORN, 1933, 105: 191.

F

EADIE, G. S. A comparison of the effects of epinephrin on carbohydrate metabolism in the cat and rat, 1930, 94: 69.

EADIE, G. S. and F. D. McCREA. A comparison of the actual and theoretical forms of the post-incisural portion of the acrtic pulse wave, 1934, 109: 197.

EADIE, G. S. See CHERRY, EADIE and FRAZER, 1932, 102: 370.
See Firor and EADIE, 1930, 94: 615.

EAGLE, E. Conditioned inhibition of water diuresis, 1933, 103: 362.

EAGLE, E., S. W. BRITTON and R. KLINE. The influence of cortico-adrenal extract on energy output, 1932, 102: 707.

EAGLE, H. The coagulation of blood by snake venoms and its physiologic significance, 1937, 119: 300.

EATON, A. G., S. CORDILL and J. L. GOUAUX. Is the work of the kidney, due to the excretion of urea, a factor in specific dynamic action, 1935, 113: 37.

EATON, A. G., S. C. CORDILL and J. L. GOUAUX. The specific dynamic action of glycine intravenously administered to nephrectomized dogs, 1936, 116: 40.

EATON, A. G. and R. G. DAGGS. Carbohydrate metabolism and specific dynamic action in partially hypophysectomized dogs, 1933, 105: 29.

EATON, A. G. and J. R. DOTY. The metabolism of lysine: the rate of absorption of d-lysine monohydrochloride from the gastro-intestinal tract in the rat, 1937, 119: 301. in dogs.

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EATON, A. G. and J. R. MURLIN. The absorption of insulin from the gastrointestinal tract, 1932, 101: 31.

The absorption of insulin from the gastro-intestinal tract. I. The effect of calcium lactate, sodium bicarbonate and blood serum in depancreatized dogs, 1933, 104: 636.

EATON, A. G. See Daggs and Eaton, 1933, 106: 299.

See Doty and Eaton, 1937, 119: 296.

See GOUAUX, CORDILL and EATON, 1936, 116: 62

ECKERT, J. F. See RICHTER and ECKERT, 1935, 113: 578. See RICHTER and ECKERT, 1936, 116: 128.

ECKSTEIN, R. W. Sounds due to muscular contraction and their importance in auscultatory qualities of the first heart sound, 1937, 118: 359.

Sounds due to skeletal muscle contraction, 1936, 116: 41. See Gregg, Eckstein and Fineberg, 1937, 118: 399.

ECTORS, L. Stimulation of the hypothalamus in chronic hemidecorticated monkevs, 1937, 119: 301.

ECTORS, L. and N. L. BROOKENS. A hemidecerebrated cat preparation, with observations, 1936, 116: 42.

ECTORS, L. See Brookens, Ectors and Gerard, 1936, 116: 16. See Kennard and Ectors, 1937, 119: 350.

EDWARDS, D. J. The action of pressure on the tension response of smooth muscle, 1935, 113: 37.

EDWARDS, D. J. and McK. CATTELL. Measurements on the visco-elastic changes in muscle under pressure, 1932, 101: 31.

The action of compression on the contraction of heart muscle, 1930, 93: 90.

EDWARDS, D. J. and G. SANGER. Effects of monoiodoacetic acid and sodium lactate on the refractory period of heart muscle, 1933, 105: 29.

EDWARDS, D. J. See Brown and Edwards, 1932, 101: 15.

See CATTELL and EDWARDS, 1930, 93: 97, 639. See Cattell and Edwards, 1931, 96: 657.

EDWARDS, H. T. Lactic acid in rest and work at high altitude, 1936, 116: 367.

EDWARDS, H. T., R. MARGARIA and D. B. DILL. Metabolic rate, blood sugar and the utilization of carbohydrate, 1934, 108: 203.

EDWARDS, H. T., T. K. RICHARDS and D. B. DILL. Blood sugar, urine sugar and urine protein in exercise, 1931, 98: 352.

EDWARDS, H. T. See DILL, BOCK and EDWARDS, 1933, 104: 36.

See DILL, CHRISTENSEN and EDWARDS, 1936, 115: 530.

See DILL, EDWARDS and DE MEIO, 1935, 111: 9.

See Dill, Edwards and Forbes, 1934, 109: 118.

See DILL, EDWARDS and MEAD, 1935, 111: 21.

See FLORKIN, EDWARDS and DILL, 1930, 94: 459.

See Margaria and Edwards, 1934, 107: 681. See MARGARIA and EDWARDS, 1934, 108: 341.

See Margaria, Edwards and Dill, 1933, 106: 689.

See Myerson, Loman, Edwards and Dill, 1931, 98: 373.

See NEWMAN, DILL, EDWARDS and WEBSTER, 1937, 118: 457.

EDWARDS, J. G. Demonstrable functions of the renal tubule after it has been segmentally injured by the action of mercuric chloride, 1937, 119: 302.

The excretion and functional localization of iron under the effects of urethane and metallic poisons, 1933, 105: 30.

The renal tubule and glomerulus, 1930, 95: 493.

The renal tubule of the frog and mammal as affected by mercury, 1934, 109: 31.

EHRE, S. See GOLDSTEIN, TATELBAUM, EHRE and MURLIN, 1932, 101: 166.

EHRENSTEIN, M. and S. W. BRITTON. Further observations on cortico-adrenal extracts, 1936, 116: 42.

Observations on life-maintaining and gonadotropic extracts of the adrenal glands, 1935, 113: 38.

Purification of adrenal extracts and isolation of an activator of male sex hormones, 1937, 119: 302.

The purification of adrenal extracts and isolation of an activator of male sex hormones, 1937, 120: 213.

EINARSON, L. See LEESE and EINARSON, 1933, 105: 66.

See Leese and Einarson, 1934, 109: 296.

EINHORN, N. H. See ROWNTREE, CLARK, STEINBERG, EINHORN and HANSON, 1936, 116: 132, 133.

EINSEL, I. H. See Quigley, Einsel, Bing and Hanzal, 1936, 116: 124. See Quigley, Einsel and Mull, 1936, 116: 124.

ELDER, J. H. The upper limit of hearing in chimpanzee, 1935, 112: 109. See ALLEN, DIDDLE and ELDER, 1935, 110: 593.

ELHARDT, W. E. Effect of ethyl alcohol on the growth of chicks, 1930, 92: 450.

ELHARDT, W. P. The effect of methyl, propyl and butyl alcohol on the growth of white leghorn chickens, 1932, 100: 74.

See Burge, Wickwire, Orth, Neild and Elhardt, 1936, 116: 19.

See NEILD, ELHARDT, WICKWIRE, ORTH and BURGE, 1936, 116: 113.

ELLIOTT, W. H., JR. See Crouch and Elliott, 1936, 115: 245.

ELLIS, J. C. and L. R. DRAGSTEDT. The in-vivo autolysis of pancreas, 1930, 93:647.

ELLIS, J. C. See Dragstedt and Ellis, 1930, 93: 407.

See Dragstedt and Ellis, 1931, 97: 517.

ELLIS, L. B. Circulatory adjustments to moderate exercise in normal individuals, with particular reference to the interrelation between the velocity and volume of the blood flow, 1932, 101: 494.

ELLIS, L. N. and O. A. BESSEY. The effect of diet on the hemoglobin concentration of the blood, 1935, 113: 582.

ELLIS, M. and H. H. MITCHELL. The effect of the pasteurization of milk on the utilization of its calcium for growth in the rat, 1933, 104: 1.

ELLIS, M. D. See ELLIS, MOTLEY and ELLIS, 1935, 113: 38.

ELLIS, M. M. and D. B. CALVIN. Glycogen storage by fresh-water mussels, 1932, 101: 32.

ELLIS, M. M., H. L. MOTLEY and M. D. ELLIS. Erythrocytic fragility and splenic derivatives. II, 1935, 113: 38.

ELSBERG, C. A. and H. SPOTNITZ. Factors which influence dark adaptation, 1937, 120: 689.

Some neural components of the visual response, 1937, 118: 792.

ELSOM, K. A., P. A. BOTT and E. H. SHIELS. On the excretion of skiodan, diodrast and hippuran by the dog, 1936, 115: 548.

ELSOM, K. A., P. A. BOTT and A. M. WALKER. The simultaneous measurement of renal blood flow and the excretion of hippuran and phenol red by the kidney, 1937, 118: 739.

ELSOM, K. A. See Starr, Abbott, Comroe, Elsom and Reisinger, 1933, 105: 90. See Walker, Schmidt, Elsom and Johnston, 1937, 118: 95.

ELSOM, K. O'S. See RIEGEL, ELSOM and RAVDIN, 1935, 112: 669.

ELVEHJEM, C. A. See DEOBALD and ELVEHJEM, 1935, 111: 118.

See Hove, ELVEHJEM and HART, 1937, 119: 768.

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ELVEHJEM, C. A.

See KEMMERER, ELVEHJEM, HART and FARGO, 1932, 102: 319.

See Kohler, Elvehjem and Hart, 1935, 113: 279.

See SHERMAN and ELVEHJEM, 1936, 117: 142, 151.

See STARE and ELVEHJEM, 1933, 105: 655.

See TODD, ELVEHJEM and HART, 1934, 107: 146.

EMERY, F. E. A study of the augmentation of ovarian weights as effected by zinc sulphate, Antuitrin S and thyroid implants, 1937, 118: 316.

The anterior pituitary sex hormone in the blood and urine of rats, 1932, 101: 246. The estrous cycle and weights of organs in relation to the hypophysis in the hairless rat, 1935, 111: 392.

The hypertrophy of the ovary in relation to the ovarian hormone, 1933, 105: 30. The influence of mental activity on the height of the knee-jerk, 1931, 97:658. The oestrous cycle of the hairless rat, 1934, 109: 32.

EMERY, F. E. and C. A. HERRICK. The effects of ascaris extract on circulation and respiration, 1929, 91: 143.

EMERY, F. E. and G. W. THORN. X-ray treatment of short duration in rats, 1935, 113: 39.

EMERY, F. E. See GRIFFITH and EMERY, 1930, 95: 20.

See GRIFFITH and EMERY, 1931, 97: 527. See GRIFFITH and EMERY, 1935, 111: 369.

See WINTER and EMERY, 1936, 116: 164.

END, E. Rapid decompression following inhalation of helium-oxygen mixtures under pressure, 1937, 120: 712.

ENGLE, E. T. Biological differences in response of the female macacus monkey to extracts of the anterior pituitary and of human pregnancy urine, 1933, 106: 145. The effect of intravenous administration of the pregnancy urine factor on the ovaries of rhesus monkeys, 1934, 108: 528.

ENGLISH, H. E. See PHILLIPS, ENGLISH and HART, 1935, 113: 441.

ENRIGHT, L., V. V. COLE and F. A. HITCHCOCK. Basal metabolism and iodine excretion during pregnancy, 1935, 113: 221.

ENSOR, C. See Bachmann, Haldi, Wynn and Ensor, 1937, 119: 262. See Bachmann, Haldi, Wynn and Ensor, 1937, 120: 579.

See Haldi, Bachmann, Ensor and Wynn, 1937, 119: 323. ENZMANN, E. V. The change in hemoglobin concentration of blood of growing rats, 1934, 108: 373.

ENZMANN, E. V. and G. PINCUS. The effect on lactating mice of injecting an extract of the urine of pregnancy, 1933, 103:30.

EPPRIGHT, E. S. Some effects of replacement of ions in a diet poor in inorganic salts, 1936, 116: 43.

EPSTEIN, N. See BEUTNER, PRUSMACK and EPSTEIN, 1934, 109: 9.

ERB, W. See Landis, Jones, Angevine and Erb, 1932, 101: 67.

ERB, W. H. See SUMWALT, ERB and BAZETT, 1935, 112: 386.

ERLANGER, J. and E. A. BLAIR. Manifestations of segmentation in myelinated axons, 1934, 110: 287.

Manifestations of segments in the action potentials of myelinated axons, 1934, 109:32.

Observations on repetitive responses in axons, 1936, 114: 328.

The configuration of axon and "simple" nerve action potentials, 1933, 106: 565. The irritability changes in nerve in response to subthreshold constant currents,

and related phenomena, 1931, 99: 129. The irritability changes in nerve in response to subthreshold induction shocks, and related phenomena including the relatively refractory phase, 1931, 99: 108.

ERLANGER, J. and E. A. BLAIR.

The irritability of nerve in response to electrical currents, with special reference to the nature of the relatively refractory phase, 1931, 97: 519.

ERLANGER, J. and H. S. GASSER. The action potentials in fibers of slow conduction in spinal roots and somatic nerves, 1930, 92: 43.

ERLANGER, J. See Blair and Erlanger, 1932, 101: 9, 559.

See BLAIR and ERLANGER, 1933, 105: 8.

See Blair and Erlanger, 1933, 106: 524.

See BLAIR and ERLANGER, 1935, 113: 12.

See Blair and Erlanger, 1936, 114: 309, 317.

See Blair and Erlanger, 1936, 117: 355.

See Gasser and Erlanger, 1930, 93: 650.

See Gasser and Erlanger, 1930, 94: 247.

ERNSTENE, A. C., J. E. F. RISEMAN, B. STERN and B. ALEXANDER. The mechanism of the circulatory changes accompanying insulin hypoglycemia, 1935, 111: 440.

ERNSTENE, A. C. See Wearn, Ernstene, Bromer, Barr, German and Zschiesche, 1934, 109: 236.

ESAU, J. N. and O. O. STOLAND. Blood phosphorus and serum calcium in normal and parathyroidectomized dogs treated with parathormone, 1930, 92: 25.

Blood phosphorus and serum calcium in parathyroid deficiency, 1930, 92: 1.

ESAU, J. N. See STOLAND and ESAU, 1930, 92: 35.

ESCOBAR, R. A. and F. M. BALDWIN. The longevity of the erythrocyte, 1934, 107: 249.

ESPE, D. L. and C. Y. CANNON. Gastric secretion in ruminants, 1937, 119: 720.

ESSEX, H. E. Specificity of immunity to venom of a rattlesnake as indicated by injections of venom of the water moccasin and honey bee, 1932, 99: 685.

Studies on the physiologic action of rattlesnake venom (crotalin). XI. Effect of crotalin on swine, 1932, 100: 339.

The physiological action of the venom of the water moccasin (Agkistrodon piscivorus), 1932, 99: 681.

ESSEX, H. E., J. F. HERRICK, E. J. BALDES and F. C. MANN. Blood flow in the circumflex branch of the left coronary artery of the dog, 1936, 117: 271.

Observations on the coronary blood flow, electrocardiogram and blood pressure of the intact dog, 1937, 119: 303.

Studies on the coronary blood flow, 1936, 116: 43.

Studies on the flow of blood from the liver, 1933, 105: 31.

The blood flow in the left coronary artery of the intact dog, 1935, 113: 39.

The effect of the digestion of food on the blood flow in certain blood vessels of the dog, 1934, 109:33.

ESSEX, H. E. and J. MARKOWITZ. The physiological action of rattlesnake venom (crotalin): I. Effect on blood pressure: symptoms and postmortem observations, 1930, 92: 317.

The physiological action of rattlesnake venom (crotalin): II. The effect of crotalin on surviving organs, 1930, 92: 329.

The physiological action of rattlesnake venom (crotalin): III. The influence of crotalin on blood, in vitro and in vivo, 1930, 92: 335.

The physiological action of rattlesnake venom (crotalin): IV. The effect on lower forms of life, 1930, 92: 342.

The physiological action of rattlesnake venom (crotalin): V. Some experiments on immunity to crotalin, 1930, 92: 345.

ESSEX, H. E. and J. MARKOWITZ.

The physiological action of rattlesnake venom (crotalin): VI. The effect of crotalin on a visceral organism, 1930, 92: 695.

The physiological action of rattlesnake venom (crotalin): VII. The similarity of crotalin shock and anaphylactic shock, 1930, 92:698.

The physiological action of rattlesnake venom (crotalin): VIII. A comparison of the physiologic action of crotalin and histamine, 1930, 92: 705.

ESSEX, H. E., J. MARKOWITZ and F. C. MANN. Physiologic responses and immune reactions to extracts of certain intestinal parasites, 1931, 98:18.

The physiologic action of the venom on the honey bee (Apis mellifera), 1930, 94: 209.

ESSEX, H. E. See Baldes, Essex and Markowitz, 1931, 97: 26.

See Baldes, Herrick and Essex, 1932, 101: 3.

See BIEBL, ESSEX and MANN, 1932, 100: 167.

See Code and Essex, 1935, 113: 29.

See Geiling, Herrick and Essex, 1934, 109: 37.

See HERRICK, ESSEX and BALDES, 1932, 99: 696.

See HERRICK, ESSEX and BALDES, 1932, 101: 213.

See HERRICK, ESSEX and BALDES, 1933, 103: 592.

See HERRICK, ESSEX, BALDES and MANN, 1935, 113: 61.

See Herrick, Essex, Baldes and Mann, 1936, 116: 74.

See Herrick, Essex, Mann and Baldes, 1933, 105: 434.

See Herrick, Essex, Mann and Baldes, 1934, 108: 621.

See HERRICK, MANN, ESSEX and BALDES, 1934, 109: 52.

See Johnson, Seeley, Baldes and Essex, 1935, 113:72.

See MacPherson, Essex and Mann, 1932, 99: 429.

See Markowitz and Essex, 1930, 92: 205.

See Markowitz, Essex and Mann, 1931, 97: 22, 180.

See Pollack, Flock, Essex and Bollman, 1934, 110: 97.

See Pollack, Flock, Mason, Essex and Bollman, 1934, 110: 102.

See Pollack, Millet, Essex, Mann and Bollman, 1934, 110: 117.

See Power, Essex and Ort, 1931, 97: 551.

See SHEARD, McCracken and Essex, 1934, 109: 96.

See Sheard, McCracken and Essex, 1936, 116: 142.

See Soskin, Essex, Herrick and Mann, 1937, 118: 328.

See Soskin, Essex, Herrick and Mann, 1937, 119: 407.

See Steggerda and Essex, 1934, 109: 102.

See Steggerda, Essex and Mann, 1935, 112: 70.

See THORP, ESSEX and MANN, 1933, 105: 389.

ETS, H. N. and T. E. BOYD. Effects of potassium on cold blocking temperature of nerves, 1933, 105: 31.

The effects of potassiun, cocaine, urethane and alcohol on the cold block in nerve, 1934, 108: 129.

ETS, H. N. See BAIMA and ETS, 1934, 109: 4.

See BELNIAK and ETS, 1937, 119: 270.

See Boyn and ETS, 1933, 105: 10.

See Boyn and Ets, 1934, 107: 76.

ETTELDORF, J. N., J. B. MITCHELL, JR. and W. R. AMBERSON. The effects of total plasmapheresis and protein regeneration upon the agglutination titre in dogs immunized against B. typhosis, 1937, 120: 451.

ETTINGER, G. H. The effect of Janus green on blood vessels, 1931, 97: 520.

The reaction of the cat to electrical currents directed through the heart, 1935, 111: 406.

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The reaction of the rabbit to electric currents directed through the heart, 1933, 105: 457.

ETTINGER, G. H., G. E. HALL and F. G. BANTING. Effects of repeated and prolonged stimulation of the vagus nerve in the dog, 1936, 116:44.

EVANS, E. I. "In the beginning," 1937, 119: 304.

Ovulation, fertilization and early development of the mammalian egg, 1936, 116: 45.

The assay of the lactogenic hormone, 1937, 119: 304.

The dietary control of parathyroid tetany, 1933, 105: 32.

The effect of prolactin upon the the milk yield of lactating cows and goats, 1936, 116: 45.

The lactogenic hormone of the anterior pituitary, 1937, 119: 303.

The transport of spermatozoa in the dog, 1933, 105: 287.

EVANS, E. I. and F. W. MILLER. Uterine motility in the cow, 1936, 116: 44.

EVANS, E. I., S. SZUREK and R. KERN. The tetany of oestrus in the parathyroidectomized dog, 1936, 117: 405.

EVANS, G. The adrenal cortex and endogenous carbohydrate formation, 1935, 113: 39.

The adrenal cortex and endogenous carbohydrate formation, 1936, 114: 297.

The effect of low atmospheric pressure on the glycogen content of the rat, 1934, 110: 273.

EVANS, H. M. Testicular degeneration due to inadequate vitamin A in cases where E is adequate, 1932, 99: 477.

EVANS, H. M., K. MEYER and M. E. SIMPSON. Relation of prolan to the anterior hypophyseal hormones, 1932, 100: 141.

EVANS, H. M. and M. E. SIMPSON. Hormones of the anterior hypophysis, 1931, 98: 511.

EVANS, H. M. and O. SWEZY. The uterus-ovary relationship and its bearing on the time of ovulation in primates, 1931, 96: 628.

EVANS, H. M. See Anderson and Evans, 1937, 119: 260.

See Anderson and Evans, 1937, 120: 597.

See REICHERT, PENCHARZ, SIMPSON, MEYER and EVANS, 1932, 100: 157.

EVANS, P. S., JR. and W. H. HOWELL. Does hemophilic blood contain an excess of an anticoagulant, 1931, 98: 131.

EVANS, W. A., JR. and J. G. GIBSON, 2ND. The blood volume in diuresis, 1937, 118: 251.

EVERS, R. See Jones and Evers, 1935, 113: 73.

EVELYN, K. A. A simplified photoelectric colorimeter using light filters, 1936, 116:45.

EYSTER, J. A. E. Further studies in cardiac hypertrophy, 1930, 93: 647.

EYSTER, J. A. E., T. H. BAST and M. R. KRASNO. Studies on the electrical response of the cochlea, 1935, 113: 40.

The origin of cochlear potentials, 1937, 119: 305.

EYSTER, J. A. E. and E. V. HICKS. Effect of respiration on cardiac output, 1933, 104: 358.

The effect of respiration on cardiac output, 1932, 101:33.

EYSTER, J. A. E. and S. L. HOOPES. Studies on the injury potential of muscle, 1934, 109: 33.

EYSTER, J. A. E. and M. KRASNO. Phonographic reproduction of voice sounds from the dog's ear, 1933, 105: 32.

EYSTER, J. A. E., M. R. KRASNO and J. P. HETTWER. Electrical potentials of the heart of the chick embryo, 1937, 120: 173. EYSTER, J. A. E., M. R. KRASNO, C. A. MAASKE and M. J. ULEVICH. Nature of R and T potentials in the mammalian heart, 1936, 116: 46.

The origin of the R and T potentials from the mammalian heart, 1937, 120: 663.

EYSTER, J. A. E., F. MARESH and M. R. KRASNO. The electrical field around heart and skeletal muscle, 1934, 109: 34.

The electric field around heart muscle, 1933, 105: 33.

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The nature of the action potentials in the frog's gastrocnemius muscle, 1935, 111:641.

The nature of the electrical field around the heart, 1933, 106: 574.

The nature of the R wave potentials in the tortoise and frog heart, 1934, 110: 422.

EYSTER, J. A. E. and W. J. MEEK. Studies on venous pressure, 1930, 95: 294.

EYSTER, J. A. E. See Krasno, Eyster and Hettwer, 1937, 119: 357.

See Krasno, Eyster and Maaske, 1935, 114: 119.

See Maaske, Krasno and Eyster, 1937, 119: 365.

F

FAGIN, J. and S. R. M. REYNOLDS. The endometrial vascular bed in relation to rhythmic uterine motility, with a consideration of the functions of the intermittent contractions of oestrus, 1936, 117: 86.

FAIRMAN, E. and G. H. WHIPPLE. Bone marrow volume in adult dogs, 1933, 104: 352.

FAHR, G., J. DAVIS, A. KERKHOF, P. HALLOCK and E. GIERE. Hemodynamics of arteriosclerosis: effects of increase in coefficient of volume elasticity of large arteries on circulation, 1932, 101: 33.

Hemodynamics of arteriosclerosis. Influence of change of coefficient of volume elasticity on circulation, 1932, 101: 376.

FAHR, G., J. DAVIS and R. SPITTLER. Hemodynamics of arteriosclerosis. Influence of elastic factor in circulation, 1931, 96: 426.

FAHR, G. and A. KERKHOF. Plasma colloid osmotic pressure as a factor in edema formation and edema absorption, 1936, 116: 46.

FÅHRAEUS, R. and T. LINDQVIST. The viscosity of the blood in narrow capillary tubes, 1931, 96: 562.

FARBER, L. See Bodo, Co Tui and FARBER, 1933, 103: 18.

FARBER, L. A. See Bodo, Co Tui and Farber, 1932, 101: 10.

FARBER, S. See HEYMANS, BOUCKAERT, FARBER and HSU, 1936, 117: 619.

FARGO, J. M. See KEMMERER, ELVEHJEM, HART and FARGO, 1932, 102: 319.

FARMER, C. J. See Freeman and Farmer, 1935, 113: 209.

FARR, L. E., K. HARE and R. A. PHILLIPS. Production of experimental diabetes insipidus in cats, 1937, 119: 305.

FARR, L. E. and J. E. SMADEL. The urea clearance of rats: its technique and normal range, 1936, 116: 349.

FARRAR, G. E., JR. The concentration of nucleated cells in the bone marrow of the albino rat, 1936, 117: 662.

FARRELL, J. I. and Y. LYMAN. A study of the secretory nerves of, and the action of certain drugs on, the prostate gland, 1937, 118: 64.

The effect of occlusion of the outflow of prostatic secretion on the prostate gland, 1936, 117: 559.

FAULEY, G. B. See Ivy and FAULEY, 1929, 91: 206.

FAY, M., E. GREISHEIMER, R. HAFKESBRING, M. ANDERSCH, M. KENYON, W. MacCALMONT, M. SHARPE and R. CORTELL. The effects of anesthesia on dogs, 1937, 119: 306. FAZEKAS, J. F., E. H. CAMPBELL, JR. and H. E. HIMWICH. The respiratory quotient of renal tissue of Houssay dogs, 1937, 118: 297.

FAZEKAS, J. F. and H. E. HIMWICH. Effect of nicotine on the oxidations of the diabetic brain, 1936, 116: 46.

The formation of an acetylcholine-like substance by excised tissues, 1937, 119: 306.

FAZEKAS, J. F. See BARKER, FAZIKAS and HIMWICH, 1934, 110: 153.

See Barker, Fazikas and Himwich, 1936, 115: 415.

See Goldfarb, Fazekas and Himwich, 1936, 117: 631.

See Himwich and Fazikas, 1935, 113:63.

See Himwich and Fazekas, 1936, 116: 75.

See Himwich and Fazekas, 1937, 119: 335.

See Himwich, Fazikas, Barker and Hurlburt, 1934, 110: 348.

See Himwich, Fazikas, Nahum, Dubois, Greenburg and Gilman, 1934, 110: 19.

See Himwich, Goldfarb and Fazikas, 1936, 114: 273.

See Himwich, Haynes and Fazikas, 1932, 101: 711.

See Himwich, Nahum, Rakieten, Fazikas and Dubois, 1932, 101: 57.

FEARING, F. See Halstead, Yacorzynski and Fearing, 1937, 120: 350.

FEASTER, J. F. and V. E. NELSON. Diet in relation to reproduction and rearing of young, 1936, 115: 147.

FEINSTEIN, R. N. See HERRIN, RABIN and FEINSTEIN, 1937, 119: 87.

FEIVESON, P. See KLEITMAN, TITELBAUM and FEIVESON, 1935, 113: 82.

FELLER, A. E. See Paul, Greene and Feller, 1937, 119: 383.

FELDMAN, H., E. C. VAN DONK, H. STEENBOCK and E. F. SCHNEIDERS. Hydremia as a factor in the anemia of pregnancy, 1936, 115: 69.

FELDMAN, H. See VAN DONK, FELDMAN and STEENBOCK, 1934, 107: 616.

FELLOWS, M.-D. See Boyn and Fellows, 1936, 114: 635.

FENDER, F. A. A method for prolonged stimulation of the nervous system, 1936, 116: 47.

FENN, W. O. Electrolyte changes in rat muscle during stimulation, 1936, 116: 47.

Factors affecting the loss of notassium from muscles on stimulation, 1937, 119:

Factors affecting the loss of potassium from muscles on stimulation, 1937, 119: 307.

Frictional and kinetic factors in the work of sprint running, 1930, 92: 583.

Loss of potassium in voluntary contraction, 1937, 120: 675.

Muscle force at different velocity of shortening, 1935, 113: 41.

The anaerobic oxygen debt of frog nerve, 1930, 92: 349.

The effect of anaerobiosis and other factors on the oxygen consumption of irritable and non-irritable muscle, 1930, 93: 124.

The oxygen consumption of muscles made non-irritable by sugar solutions, 1931, 97: 635.

The oxygen consumption of muscle under the influence of sugar and other contracture producing substances, 1930, 93:648.

The potassium equilibrium in frog muscle, 1933, 105: 33.

The relation between tension and speed of shortening in human muscles by a new method, 1931, 97: 520.

The stimulating effect of carbon monoxide on muscle metabolism, 1932, 101: 34.

Work against gravity and work due to velocity changes in running. Mayaments

Work against gravity and work due to velocity changes in running. Movements of the center of gravity within the body and foot pressure on the ground, 1930, 93: 433.

FENN, W. O., H. BRODY and A. PETRILLI. The tension developed by human muscles at different velocities of shortening, 1931, 97: 1.

FENN, W. O. and D. M. COBB. Electrolyte changes in muscle during activity, 1936, 115: 345.

FENN, W. O. and D. M. COBB.

Evidence for a potassium shift from plasma to muscles in response to an increased carbon dioxide tension, 1935, 112: 41.

The burning of carbon monoxide by heart and skeletal muscle, 1932, 102: 393. The stimulation of muscle respiration by carbon monoxide, 1932, 102: 379.

FENN, W. O., D. M. COBB, A. H. HEGNAUER and B. S. MARSH. Electrolytes in nerve, 1934, 110: 74.

FENN, W. O., D. M. COBB and B. S. MARSH. Sodium and chloride in frog muscle, 1934, 110: 261.

FENN, W. O. and J. B. HURSH. Movements of the eyes when the lids are closed, 1937, 118: 8.

FENN, W. O. and W. B. LATCHFORD. The effect of high frequency currents on the oxygen consumption of frog muscle, 1932, 99: 608.

The increased metabolism of the sartorius muscle of the frog following exposure to Roentgen radiation, 1932, 99: 454.

FENNING, C. The effect of periodic changes in amplitude of respiration upon blood pressure, 1934, 110: 464.

FERGUSON, J., A. C. IVY and H. GREENGARD. Observations on the response of the spleen to the intravenous injection of certain secretin preparations, acetyl choline and histamine, 1936, 117: 701.

FERGUSON, J. H. An experimental analysis of coagulant activation, 1936, 117: 587.

An intermediary calcium complex in blood coagulation, 1937, 119: 755.

Cephalin and corneal extracts in blood coagulation, 1936, 116: 48.

Observations on the alterations of blood platelets as a factor in coagulation of the blood, 1934, 108: 670.

The action of calcium in blood coagulation, 1937, 119: 307.

The dark-field microscopy of blood platelets in clotting and citrated blood, 1934, 109: 34.

FERGUSON, J. H. and E. R. B. SMITH. Gastric anacidity following pilocarpine injections in monkeys, 1934, 109: 34.

FERGUSON, J. K. W. Carbamino compounds of CO₂ with human hemoglobin, 1936, 116: 48.

FERGUSON, J. K. W., L. LEWIS and J. SMITH. Carbonic anhydrase in marine invertebrates, 1937, 119: 308.

FERGUSON, J. K. W. See IRVING, FOSTER and FERGUSON, 1931, 97: 534. See ROBERTSON and FERGUSON, 1936, 116: 130.

FERGUSON, L. K. See Bronk and Ferguson, 1933, 105: 13.

See Bronk and Ferguson, 1935, 110: 700.

See Bronk, Ferguson, Margaria and Solandt, 1936, 117: 237.

See Bronk, Ferguson and Solandt, 1934, 109: 15.

FERNALD, A. T. See McClure, Huntsinger and Fernald, 1934, 107: 1, 94.

FERRARO, A. See BARRERA and FERRARO, 1937, 119: 266.

FERRILL, H. W., J. M. ROGOFF and B. O. BARNES. Further studies on the influence of the adrenal glands on experimental diabetes, 1935, 113:41.

FERRILL, H. W., J. M. ROGOFF, B. O. BARNES and V. B. SCOTT. The effects of partial and complete adrenalectomy on experimental diabetes, 1934, 109: 35.

FERRILL, H. W. See ROGOFF, BARNES, SCOTT and FERRILL, 1934, 109: 89.
See ROGOFF and FERRILL, 1936, 116: 131.

See Scott, Ferrill, Rogoff and Barnes, 1934, 109: 95.

FETTER, D., L. BARRON and A. J. CARLSON. II. The effect of induced hyperthyroidism on the gastro-intestinal motility of vagotomized dogs, 1932, 101: 605

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FETTER, D. and A. J. CARLSON. The vitamin A and D content of some margarines, 1931, 96: 257.

I. The effect of experimental hyperthyroidism on gastro-intestinal motility, 1932, 101: 598.

FEVOLD, H. L. and F. L. HISAW. Interactions of gonad stimulating hormones in ovarian development, 1934, 109: 655.

FEVOLD, H. L., F. L. HISAW and R. GREEP. Augmentation of the gonad stimulating action of pituitary extracts by inorganic substances, particularly copper salts, 1936, 117: 68.

Effect of oestrin on the activity of the anterior lobe of the pituitary, 1936, 114: 508.

FEVOLD, H. L., F. L. HISAW, A. HELLBAUM and R. HERTZ. Sex hormones of the anterior lobe of the hypophysis, 1933, 104:710.

FEVOLD, H. L., F. L. HISAW and S. L. LEONARD. The gonad stimulating and the luteinizing hormones of the anterior lobe of the hypophysis, 1931, 97: 291.

FEVOLD, H. L. See Hisaw, Meyer, Leonard and Fevold, 1930, 93: 659. See Leonard, Hisaw and Fevold, 1932, 100: 111.

FIELD, J., II. See MARTIN, FIELD and HALL, 1930, 93: 672.

See MARTIN, FIELD and HALL, 1932, 102: 476, 481.

See Martin, Field, Hall and Field, 1931, 97: 545. See Hall, Field, Sahyun, Cutting and Tainter, 1933, 106: 432.

FIELD, J. G. See MORGAN and FIELD, 1933, 105: 585.

FIELD, M. E. The effect of emotion on the blood-platelet count, 1930, 93: 245.

FIELD, M. E. and C. K. DRINKER. A quantitative method for the collection of lymph, 1936, 116: 49.

Conditions governing the removal of protein deposited in the subcutaneous tissues of the dog, 1931, 98: 66.

The action of histamine on the bronchioles and pulmonary vessels of the guinea pig, 1930, 93: 138.

The composition of lymph and edema fluid from regions with blocked lymph drainage, 1934, 109: 35.

The passage of visible particles through the walls of blood capillaries and into the lymph stream, 1936, 116: 597.

The permeability of the capillaries of the dog to protein, 1931, 97: 40.

The rapidity of interchanges between the blood and lymph in the dog, 1931, 98: 378.

FIELD, M. E., O. C. LEIGH, JR., J. W. HEIM and C. K. DRINKER. The protein content and osmotic pressure of blood serum and lymph from various sources in the dog, 1934, 110: 174.

FIELD, M. E. See DRINKER and FIELD, 1931, 97: 32, 518.

See Drinker and Field, 1932, 100: 642.

See Drinker and Field, 1932, 101: 30.

See DRINKER and FIELD, 1936, 116: 37.

See Drinker, Field, Heim and Leigh, 1934, 109: 572.

See Drinker, Field and Homans, 1934, 108: 509.

See Drinker, Field and Homans, 1934, 109: 30.

See Drinker, Field, Ward and Lyons, 1935, 112:74.

See HAYNES and FIELD, 1931, 97:52

See Heim, Field and Drinker, 1933, 105: 47.

See LOEWEN, FIELD and DRINKER, 1931, 98: 70.

See Marble, Field, Drinker and Smith, 1934, 109: 467.

See WHITE, FIELD and DRINKER, 1933, 103: 34.

FIELD, S. M. See MARTIN, FIELD, HALL and FIELD, 1931, 97: 545.

FINCH, G. "Hunger" as a factor determining the magnitude of conditioned and unconditioned salivary responses, 1936, 116: 49.

See Culler and Finch, 1935, 113: 32.

See Culler, Finch and GIRDEN, 1935, 111: 416.

FINDLEY, T., JR. See WALKER, HUDSON, FINDLEY and RICHARDS, 1937, 118: 121.
See White and Findley, 1937, 119: 419, 740.

FINDLEY, T. See WALKER, RICHARDS, HUDSON, FINDLEY and KEMPTON, 1934, 109: 107.

FINE, A. See TAYLOR and FINE, 1930, 93: 544.

FINEBERG, M. H. The estimation of pericardial capacity in living dogs, 1935, 113: 42.

See Gregg, Eckstein and Fineberg, 1937, 118: 399.

FINEGAN, R. W. See WILEELMJ and FINEGAN, 1937, 119: 420.

See WILHELMJ, FINEGAN and HILL, 1937, 119: 421.

FIROR, W. M. Experiments in cross circulation, 1931, 96: 146.
Hypophysectomy in pregnant rabbits, 1933, 104: 204.

FIROR, W. M. and G. S. EADIE. The effect of epinephrin on muscle glycogen in the absence of the liver, and a modification of the operation for liver removal, 1930. 94:615.

FIROR, W. M. and A. GROLLMAN. Studies on the adrenal. I. Adrenalectomy in mammals with particular reference to the white rat (Mus norvegicus), 1933. 103: 686.

The relation of the adrenal cortical hormone to vitamins B (B₁), C and G (B₂), 1934, 109: 35.

FIROR, W. M. and C. G. HARTMAN. The hypophysis and menstruation, 1936, 116:49.

FIROR, W. M. and S. R. M. REYNOLDS. Experiments on hypophysectomized rabbits, 1933, 105: 34.

FIROR, W. M. See GROLLMAN and FIROR, 1932, 101: 46.

See Grollman and Firor, 1933, 105: 41.

See Grollman and Firor, 1935, 112: 310.

See Grollman and Firor, 1935, 113: 55.

See HARTMAN, FIROR and GEILING, 1930, 95: 662.

See REYNOLDS and FIROR, 1933, 104: 331.

See REYNOLDS and FIROR, 1934, 109: 87.

FIROR, W. N. See GROLLMAN, FIROR and GROLLMAN, 1934, 108: 237.

FISCHER, E. The absence of "all-or-none" in the heat production of skeletal muscle after direct stimulation, 1930, 93:648.

The action of a single vagal volley and the dependence of its chronotropic effect on the rhythmic mechanism of the pacemaker, 1936, 116: 50.

The action of a single vagal volley on the heart of the eel and the turtle, 1936, 117: 596.

The oxygen-consumption of isolated muscles for isotonic and isometric twitches, 1931, 96:78.

Volume changes of heart and of skeletal muscle during and after activity, 1935, 113: 42.

FISHER, C. See INGRAM and FISHER, 1937, 119: 341.
See INGRAM, FISHER and BARRIS, 1934, 109: 57.

FISHER, K. C. The respiratory system which maintains the heart rate in embryonic fish, 1936, 116: 50.

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FISHER, K. C. and J. A. CAMERON. The time course of the frequency change when a carbon monoxide poisoned heart is illuminated, 1937, 119: 309.

FISHER, K. C. and L. IRVING. The effect of CO upon the embryonic fish heart, 1934, 109: 36.

FISHER, R. E. and G. T. CORI. Hexosemonophosphate changes in muscle in relation to rate of stimulation and work performed, 1935, 112: 5.

FISHER, R. E. See Cori, Fisher and Cori, 1935, 114: 53.

FISHMAN, D. See Nice and Fishman, 1934, 107: 113.

See Nice and Fishman, 1934, 109: 569.

See NICE and FISHMAN, 1936, 116: 114.

See NICE and FISHMAN, 1936, 117: 111.

See Nice, Katz, Fishman and Friedman, 1935, 113: 102.

FISK, M. E. See Underhill and Fisk, 1930, 95: 330, 348, 364.
See Underhill, Fisk and Kapsinow, 1930, 95: 325, 334, 339.

See Underhill, Kapsinow and Fisk, 1930, 95: 302, 315.

FITCH, J. B. See RIDDELL, HUGHES and FITCH, 1933, 106: 676. FITCH, R. H. See Voegtlin, Fitch, Kahler and Johnson, 1934, 107: 539.

FITZ, F. See CRANDALL, VANDOLAH and FITZ, 1934, 109: 25.

FITZ, G. W. A special micro-manipulator, 1934, 109: 36.

FITZHUGH, G., M. L. MILLER, G. W. TAYLOR and J. C. AUB. Studies of calcium and phosphorus metabolism. Xb. The effect of intravenous calcium chloride on peristalsis following intestinal obstruction in dogs, 1931, 97: 142.

FITZHUGH, O. G. Effects of cortico-adrenal extract on growth and sexual activities, 1937, 118: 677.

FITZ-HUGH, T., JR. See DRABKIN and FITZ-HUGH, 1934, 108: 61.

FLAUM, G. See RALLI, FLAUM and BANTA, 1935, 110: 545.

See RALLI, FLAUM, JOFFE and STUECK, 1934, 107: 157.

See Ralli, Pariente, Flaum and Waterhouse, 1933, 103: 458.

FLEMING, A. J. and F. C. MacINTOSH. Effect of sympathetic stimulation on the paralytic submaxillary gland, 1934, 109: 36.

FLESCHE, B. A., L. B. WINKELSTEIN and F. H. SCOTT. The spleen and blood concentration, 1930, 93: 649.

FLEXNER, J. See Amberson, Flexner, Pankratz, Steggerda and Mulder, 1933, 105: 2.

See Mulder, Amberson, Steggerda and Flexner, 1933, 105: 74.

FLEXNER, L. B. A note on the rate of circulation of cerebrospinal fluid, 1933, 106: 201.

The water of the cerebrospinal fluid. Variations of its rate of flow with variation of ventricular pressure, 1933, 106: 170.

FLEXNER, L. B., J. H. CLARK and L. H. WEED. The elasticity of the dural sac and it contents, 1932, 101: 292.

FLEXNER, L. B. and L. H. WEED. Factors concerned in positional alterations of intracranial pressure, 1933, 104: 681.

Note on cerebrospinal elasticity in a chimpanzee, 1933, 105: 571.

FLEXNER, L. B. and H. WINTERS. The rate of formation of cerebrospinal fluid in etherized cats, 1932, 101: 697.

FLEXNER, L. B. See WEED, FLEXNER and CLARK, 1932, 100: 246.

See WEED and FLEXNER, 1932, 101: 668.

See WEED and FLEXNER, 1933, 105: 266.

FLIPPIN, J. C. See BRITTON, FLIPPIN and SILVETTE, 1931, 99: 44.

FLOCK, E. See Higgins, Berkson and Flock, 1932, 102: 673.

See Higgins, Berkson and Flock, 1933, 105: 177.

FLOCK, E.

See Pollack, Flock and Bollman, 1934, 110: 105.

See Pollack, Flock, Essex and Bollman, 1934, 110: 97.

See Pollack, Flock, Mason, Essex and Bollman, 1934, 110: 102.

FLOOD, C. A., E. B. GUTMAN and A. B. GUTMAN. Serum and urine phosphatase activity in the cat after ligation of the common bile duct, 1937, 120: 696.

FLOOK, E. See POLLACK, FLOOK and BOLLMAN, 1934, 109: 84.

FLORKIN, M., H. T. EDWARDS and D. B. DILL. Oxygen utilization in the legs of normal men. I. Effect of posture, 1930, 94: 459.

FLORKIN, M. See DWORKIN and FLORKIN, 1930, 93: 646.
See DWORKIN and FLORKIN, 1930, 95: 139.

FLUHMANN, C. F. Comparative studies of gonad-stimulating hormones. III. Effects of prolonged injections in immature rats, 1933, 106: 238.

The induction of the pseudopregnancy vaginal reaction in spayed mice by the injection of human blood, 1930, 95: 422.

The influence of the thyroid on the action of gonad-stimulating hormones, 1934, 108: 498.

FOGELSON, S. J. See BACHRACH and FOGELSON, 1937, 119: 262.

See SCHMIDT and FOGELSON, 1936, 116: 138.

See SCHMIDT and FOGELSON, 1937, 120: 87.

FOGELBERG, A., B. O. BARNES and L. HANSON. The effect of calcium gluconate on parathyroid tetany in the albino rat, 1933, 105: 34.

FOGELBERG, A. and C. E. LEESE. The effect of bulbocapnine upon the venous blood pressure, 1935, 113: 43.

FOGELBERG, A. See BARNES and FOGELBERG, 1933, 105: 3.

See Leese and Fogelberg, 1937, 119: 359.

FORBES, A., A. BARBEAU and L. H. RICE. Evidence from the alcohol block method on the frequency of motor nerve impulses in the flexion reflex, 1931, 98: 484.

FORBES, A., McK. CATTELL and H. DAVIS. The immediate effect of spinal transection on the crossed extension reflex, 1935, 112: 152.

FORBES, A., H. DAVIS and E. LAMBERT. The balancing of antagonistic reflex effects in a spinal center, 1930, 93: 649.

The conflict between excitatory and inhibitory effects in a spinal center, 1930, 95:142.

FORBES, A., A. J. DERBYSHIRE, B. REMPEL and E. LAMBERT. The effects of ether, nembutal and avertin on the potential patterns of the motor cortex, 1935, 113: 43.

FORBES, A., B. RENSHAW and B. REMPEL. Units of electrical activity in the cerebral cortex, 1937, 119: 309.

FORBES, A., O. C. SMITH, E. F. LAMBERT, W. F. CAVENESS and A. J. DERBY-SHIRE. The central inhibitory mechanism investigated by means of antidromic impulses, 1933, 103: 131.

FORBES, A. See Derbyshire, Rempel, Forbes and Lambert, 1936, 116: 577.

See Lambert, Skinner and Forbes, 1933, 105: 65.

See Lambert, Skinner and Forbes, 1933, 106: 721.

See Rosenblueth, Forbes and Lambert, 1933, 105: 508.

FORBES, H. S. See Behnke, Forbes and Motley, 1936, 114: 436.

FORBES, T. W. Skin potential and impedance responses with recurring shock stimulation, 1936, 117: 189.

See Fowler and Forbes, 1936, 116: 51.

See Fowler and Forbes, 1936, 117:24.

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FORBES, W. H. Blood sugar and glucose tolerance at high altitudes, 1936, 116; 309. See Dill, Edwards and Forbes, 1934, 109: 118.

FOSS, E. S. See Leichsenring, Biester, Hönig, Furnas, Foss and Routt, 1932, 99: 391.

FOSS, N. See MACHT and Foss, 1934, 109: 68, 69.

FOSSLER, H. R. See HERREN and FOSSLER, 1931, 97: 282.

FOSTER, A. O. See Schneider and Foster, 1931, 98: 595.

FOSTER, H. C. See IRVING and FOSTER, 1930, 93: 660.

See IRVING and FOSTER, 1930, 95: 429.

See Inving, Foster and Ferguson, 1931, 97: 534.

FOSTER, M. A. See FRIEDGOOD and FOSTER, 1937, 119: 312.

FOSTER, P. C. See LAURENS and FOSTER, 1937, 118: 372.

FOSTER, W. I. See Higgins, Foster and Sheard, 1930, 94: 91.

See Sheard, Higgins and Foster, 1930, 93: 686. See Sheard, Higgins and Foster, 1930, 94: 84.

FOULGER, J. H. and C. A. MILLS. The influence of urea upon blood clotting. I. Thrombin clotting, 1930, 94: 51.

The influence of urea upon blood clotting. II. Tissue fibringen clotting and tissue fibringen, 1931, 96: 509.

FOURT, L. Mechanical properties of nerve proteins in unimolecular films, 1937, 119: 310.

FOURT, L., R. S. BEAR and F. O. SCHMITT. Unimolecular films of nerve proteins, 1935, 113: 44.

FOURT, L. See SCHMITT and FOURT, 1936, 115: 564.

FOWLER, E. P., JR. and T. W. FORBES. Depression in order of frequency of the electrical cochlear response of cats, 1936, 117: 24.

Depression of the cochlear response in order of frequency, 1936, 116: 51.

FOWLER, H. M. See Barnes and Fowler, 1935, 113: 8. See Smith, Paul and Fowler, 1930, 93: 688.

FOX, C. A. and R. W. WHITEHEAD. Effect of cortico-adrenal extract on hemolysin formation in normal adult animals, 1935, 113: 44.

FOX, E. L. See BENEDICT and Fox, 1934, 108: 285. See LEE and Fox, 1933, 106: 91.

FOX, J. C., JR. See ZIMMERMAN, Fox and Cowgill, 1934, 109: 115.

FRANCIS, L. D., A. H. SMITH and T. S. MOISE. Diet and tissue growth. VIII.

Influence of vitamins B, G and undifferentiated B on the effects produced by protein-rich diets upon the kidney of the rat, 1931, 97: 210.

FRANK, R. See NECHELES and FRANK, 1935, 113: 101.

See NECHELES, FRANK, KAYE and ROSENMAN, 1936, 114: 695.

See Necheles, Levitsky, Kohn, Maskin and Frank, 1936, 116: 330.

FRANKE, F. E. and L. D. SEAGER. Reactions of pial vessels, 1932, 101: 35.

FRANKE, F. E. See HERTZMAN and FRANKE, 1934, 109: 52.

See HERTZMAN and FRANKE, 1935, 113: 63.

See HERTZMAN, SEAGER and FRANKE, 1933, 105: 50.

FRAZER, W. P. See CHERRY, EADIE and FRAZER, 1932, 102: 370.

FREDERICQ, H. and W. E. GARREY. Action of the vagus nerves on the chronaxie of the auricles and the ventricles of the turtle heart; relationship to chromotropic changes, 1930, 94: 101.

FREED, S. C. and S. SOSKIN. An ovarian factor, other than progestin, which inhibits the uterine response to estrin, 1937, 119: 311.

FREEMAN, D. See Pierce, Friedenwald and Freeman, 1933, 104: 553.

See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

FREEMAN, E. and W. F. HAMILTON. The blue excitation curve of dichromats, 1932, 101: 686.

FREEMAN, G. L. and C. W. DARROW. Insensible perspiration and the galvanic skin reflex, 1935, 111: 55.

FREEMAN, N. E. Decrease in bood volume after prolonged hyperactivity of the sympathetic nervous system, 1933, 103: 185.

The effect of temperature on the rate of blood flow in the normal and in the sympathectomized hand, 1935, 113: 45, 384.

The rôle of hexose diphosphate in muscle activity, 1930, 92: 107.

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FREEMAN, N. E., R. S. MORISON and M. E. Mack. SAWYER. The effect of dehydration on adrenal secretion and its relation to shock, 1933, 104: 628.

FREEMAN, N. E. and R. A. PHILLIPS. Studies on the conditions of activity in endocrine organs. XXVII. The question of reflex inhibitory action of the vagus on the medulliadrenal secretion, 1931, 98: 55.

FREEMAN, N. E., R. A. PHILLIPS and W. B. CANNON. An unsuccessful attempt to demonstrate humoral action of "vagus substance" in the circulating blood, 1931, 98: 435.

FREEMAN, N. E. and A. ROSENBLUETH. Reflex stimulation and inhibition of vasodilators in sympathectomized animals, 1931, 98: 454.

FREEMAN, N. E., J. L. SHAW and J. C. SNYDER. The peripheral blood flow in surgical shock, 1936, 116: 52.

FREEMAN, N. E., R. H. SMITHWICK and J. C. WHITE. Adrenal secretion in man. The reactions of the blood vessels of the human extremity, sensitized by sympathectomy, to adrenalin and to adrenal secretion resulting from insulin hypoglycemia, 1934, 107: 529.

FREEMAN, N. E. and J. W. ZELLER. The effect of temperature on the volume flow of blood through the sympathectomized paw of the dog, with observations on the oxygen content and capacity, carbon-dioxide content and pH of the arterial and venous blood, 1937, 119: 311.

The effect of temperature on the volume flow of blood through the sympathectomized paw of the dog with observations on the oxygen content and capacity, carbon-dioxide content, and pH of the arterial and venous blood, 1937, 120: 475.

FREEMAN, N. E. See ROSENBLUETH and FREEMAN, 1931, 98: 430.

FREEMAN, S. The influence of irradiated ergosterol and parathyroid extract upon the rate of disappearance of intravenously injected calcium chloride, 1936, 115:701.

The influence of irradiated ergosterol and parathyroid extract upon the rate of disappearance of intravenously injected calcium chloride, 1936, 116: 52.

FREEMAN, S. and Y. P. CHEN. The effect of jaundiced blood or serum upon the serum phosphatase, inorganic phosphorus and sugar of normal dogs, 1937, 119: 311.

FREEMAN, S. and C. J. FARMER. Correlated studies of calcium, inorganic phosphorus, and serum phosphatase in normal animals and in animals influenced by irradiated ergosterol, 1935, 113: 209.

FREEMAN, S. and A. C. IVY. The influence of the pancreas on the serum phosphatase of dogs, 1937, 118: 541.

The synthesis of fatty acid esters of glycerol by the intestine in normal and diabetic dogs, 1935, 113: 46.

The synthesis of neutral fat by the intestine of diabetic dogs, 1935, 114: 132.

FREY, B. J., V. GENITIS, I. SCHOUR and R. D. TEMPLETON. The influence of an inorganic salt mixture on the rate of tooth eruption in the thyroparathyroidectomized and unoperated albino rats, 1936, 116: 53.

FRICK, H. L., R. E. SCANTLEBURY and T. L. PATTERSON. The control of gastric hunger contractions in man by hypnotic suggestion, 1935, 113:47.

FRIEDENWALD, J. S. See Pierce, Friedenwald and Freeman, 1933, 104: 553.
FRIEDGOOD, H. B. and W. B. CANNON. Nervous control of the anterior hypophysis, 1936, 116: 54.

FRIEDGOOD, H. B. and M. A. FOSTER. The effect of adrenalectomy upon experimental ovulation and luteinization in anestrous cats, 1937, 119: 312.

FRIEDGOOD, H. B. and R. McLEAN. The effect of an anterior hypophyseal extract upon the serum calcium and phosphorus, 1937, 118: 588.

FRIEDGOOD, H. B. See REBOUL, DAVIS and FRIEDGOOD, 1937, 120: 724.
See REBOUL, FRIEDGOOD and DAVIS, 1937, 119: 387.

FRIEDMAN, D. L. See NICE, KATZ, FISHMAN and FRIEDMAN, 1935, 113: 102.

FRIEDMAN, G. S. and M. H. FRIEDMAN. An examination of cerebrospinal fluid, by means of the uterine fistula, for the presence of the oxytocic factor of the posterior pituitary, 1932, 101: 35.

An examination of cerebrospinal fluid for oxytocic activity as tested by the rabbit uterine fistula preparation, 1933, 103: 244.

FRIEDMAN, J. L. and L. B. NICE. Multiple ovaries and oestrus, 1930, 93: 650. Multiple ovaries and the oestrous cycle in the white rat, 1930, 95: 40.

FRIEDMAN, M. H. Further studies on the mechanism of ovulation, 1931, 97: 520.
On the mechanism of ovulation in the rabbit. III. The fate of mechanically ruptured follicles, 1931, 98: 209.

On the mechanism of ovulation in the rabbit. V. The effect of direct intrafollicular injections of extracts of urine of pregnancy, 1932, 99: 332.

The production of functional corpora lutea by the direct intrafollicular injection of extracts of pregnancy urine, 1932, 101: 34, 482.

FRIEDMAN, M. H. and G. WEINSTEIN. The exerction of gonadotropic substance by the normal man after administration of extracts of pregnancy urine, 1936, 116: 54.

FRIEDMAN, M. H. See BABKIN and FRIEDMAN, 1934, 109: 2.

See FRIEDMAN and FRIEDMAN, 1932, 101: 35.

See Friedman and Friedman, 1933, 103: 244.

See Makepeace, Weinstein and Friedman, 1937, 119: 512.

See REYNOLDS and FRIEDMAN, 1930, 94: 696, 705.

See Weinstein, Reynolds and Friedman, 1931, 98: 237.

FRIEDMAN, M. M. See Bodo, Benaglia and Friedman, 1933, 105: 8.
See Bodo, CoTui, Benaglia and Friedman, 1934, 109: 12.

FRITZ, J. C., W. A. HENDRICKS and H. W. TITUS. The influence of previous feeding on the nitrogen excretion of fasting birds, 1936, 115: 281.

FRY, E. G. The effect of adrenalectomy upon the response of the rat to the ketogenic principle of the anterior pituitary, 1936, 116: 55.

See Long, Lukens and Fry, 1936, 116: 96.

FRY, G. A. Depression of the activity aroused by a flash of light by applying a second flash immediately afterwards to adjacent areas of the retina, 1934, 108: 701.

FRY, G. A. and S. H. BARTLEY. The effect of one border in the visual field upon the threshold of another, 1935, 112: 414.

The relation of stray light in the eye to the retinal action potential, 1935, 111: 335.

FRYER, A. L. and E. GELLHORN. On the principle of autonomic nervous action, 1933, 103: 392. f gas-

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FULLARTON, R. See REZNIKOFF and FULLARTON, 1932, 101: 87.

FULLER, H. J. and W. E. BURGE. A study of the effect of temperature and of strength of stimuli on contractility in the plant mimosa, 1934, 109: 36.

FULTON, J. F. Bilateral representation of the lower extremity in the motor cortex of the chimpanzee, 1932, 101: 36.

FULTON, J. F. and M. A. KENNARD. The relation of the motor and premotor areas of the cortex to spasticity and postural reflexes in primates, 1933, 105: 35.

FULTON, J. F., M. A. KENNARD and J. W. WATTS. Autonomic representation in the cerebral cortex, 1934, 109: 37.

FULTON, J. F. See BIEBER and FULTON, 1933, 105: 7.

See Himwich and Fulton, 1931, 97: 533.

See Keller and Fulton, 1931, 97: 537.

See Ruch and Fulton, 1936, 116: 134.

See Ruch, Fulton and Kashon, 1937, 119: 394.

FULTON, M. N. See DAVENPORT, FULTON, VAN AUKEN and PARSONS, 1934, 108: 99.

FUNK, C. and B. HARROW. The male hormone. V. The effect of the male hormone and the anterior pituitary, 1932, 101: 218.

FUNK, C., B. HARROW and A. LEJWA. The male hormone, 1930, 92: 440.

FUNK, D. See D'AMOUR and FUNK, 1937, 119: 293.

FURNAS, S. M. See Leichsenring, Biester, Hönig, Furnas, Foss and Routt, 1932, 99: 391.

GAARDE, F. W. See BINGER, GAARDE and MARKOWITZ, 1931, 96: 647.

GAEBLER, O. H. Effects of thyroparathyroidectomy and carbohydrate intake on the action of anterior pituitary extracts, 1935, 110: 584.

GAGGE, A. P. A new physiological variable associated with sensible and insensible perspiration, 1937, 120: 277.

The linearity criterion as applied to partitional calorimetry, 1936, 116: 656.

See Herrington, Winslow and Gagge, 1937, 120: 133. See Winslow, Herrington and Gagge, 1927, 120: 1, 288.

See Winslow, Herrington and Gagge, 1936, 116: 641, 669.

GAIRNS, S. See Banting and Gairns, 1930, 94: 241.

GAISER, D. W. See BRYAN and GAISER, 1932, 99: 379.

GALAPEAUX, E. A., E. L. BORKON and R. D. TEMPLETON. The influence of age on the resistance to insufficient intake of inorganic salt mixture, 1936, 116: 55.

GALAPEAUX, E. A. and R. D. TEMPLETON. The influence of filling the stomach on colon motility in the dog, 1937, 119: 312.

GALAPEAUX, E. A. See Patras, Galapeaux and Templeton, 1936, 116: 119.

See Patras, Galapeaux and Templeton, 1937, 119: 382.

See Templeton, Bollens, Lawson, Lutz, Borkon and Galapeaux, 1936, 116:

See TEMPLETON and GALAPEAUX, 1937, 119: 414.

GALLIVAN, D. See Rowe, Gallivan and Matthews, 1930, 95: 592.

GALLIVAN, D. E. See Rowe, Gallivan and Matthews, 1931, 96: 94, 101.

GAMBLE, J. L., C. F. McKHANN, A. M. BUTLER and E. TUTHILL. An economy of water in renal function referable to urea, 1934, 109: 139.

GAMBLE, C. J. See DONAL and GAMBLE, 1933, 105: 28.

See Donal and Gamble, 1936, 116: 495.

See Donal, Gamble and Shaw, 1934, 109: 666.

See Starr, Donal, Margolies, Shaw, Collins and Gamble, 1934, 109: 101.

GAMMON, G. D. and D. W. BRONK. Afferent impulses on the splanchnic nerves and their relation to the arterial pulse, 1933, 105: 35.

The discharge of impulses from Pacinian corpuscles in the mesentery and its relation to vascular changes, 1935, 114: 77.

GAMMON, G. D., I. STARR, JR. and D. W. BRONK. The effect of counter-irritation upon pain produced by cutaneous injury, 1936, 116: 56.

GANTT, W. H. Essential anatomical structures of the reflex arc for establishment of conditioned reflexes, 1937, 119: 313.

The nervous secretion of saliva: quantitative studies in the natural unconditioned reflex secretion of parotid saliva, 1937, 119: 493.

The nervous secretion of saliva. Quantitative studies in the natural unconditioned reflex secretion of saliva, 1936, 116: 56.

See Brogden and Gantt, 1937, 119: 277.

GARCEAU, E. L. and H. DAVIS. An amplifier, recording system, and stimulating devices for the study of cerebral action currents, 1934, 107: 305.

GARCEAU, E. L. See Davis, GIBBS and GARCEAU, 1935, 113: 34.

GARDNER, W. U., E. T. GOMEZ and C. W. TURNER. Further studies of the effects of the estrogenic and the galactopoietic hormones upon the mammary gland of the rabbit, 1935, 112: 673.

GARDNER, W. U. See Allen, Diddle, Burford and Gardner, 1936, 117: 381.

GARRAHAN, C. J. See ZIRKLE and GARRAHAN, 1936, 116: 167.

GARRETT, O. F. and H. H. MITCHELL. An application of the paired feeding method to the quantitative estimation of the relative vitamin A contents of foods and artificial concentrates, 1933, 104: 608.

GARREY, W. E. Action of acetylcholine on cultures of chick heart, 1937, 119: 314.

The pace maker of the cardiac ganglion of Limulus polyphemus, 1930, 93: 178.

GARREY, W. E. and R. ASHMAN. The excitability of the turtle ventricle during vagus stimulation, 1931, 98: 102.

GARREY, W. E. and G. BASS. Effects of acetylcholine on the frog's ventricle, 1937, 119: 314.

GARREY, W. E. and J. T. BOYKIN. Inhibition of the heart under anaerobic conditions, 1935, 111: 649.

Reduction of oxygen consumption during cardiac inhibition, 1934, 109: 286.

Suppressions of oxidations by a vagus inhibition of the heart, 1933, 105: 35.

Vago-inhibitory effects on the respiratory metabolism of the heart after treatment with dinitrophenol, 1935, 111: 196.

GARREY, W. E. and V. BUTLER. The digestive leucocytosis question, 1932, 100: 351.

The digestive leucocytosis question, 1932, 101: 37.

GARREY, W. E. and L. L. CHASTAIN. Acetylcholine action on the turtle heart, 1937, 119: 314.

Inotropic and chronotropic effects of acetylcholine upon the chelonian heart, 1937, 119: 315.

GARREY, W. E. See ASHER and GARREY, 1930, 94: 619.

See Ashman and Garrey, 1931, 98: 109.

See Bryan, Chastain and Garrey, 1935, 113: 416, 430.

See Bryan and Garrey, 1930, 93: 638.

See BRYAN and GARREY, 1931, 98: 194.

See BUTLER and GARREY, 1931, 98: 394.

See Fredericq and Garrey, 1930, 94: 101. See King, Blair and Garrey, 1931, 97: 329.

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See King, Garrey and Bryan, 1932, 101: 64.

See King, Garrey and Bryan, 1932, 102: 305.

GARRISON, E. A. See Morgan and Garrison, 1933, 105: 596.

See Morgan, Garrison and Hills, 1933, 105: 608.

GASSER, H. S. Changes in nerve-potentials produced by rapidly repeated stimuli and their relation to the responsiveness of nerve to stimulation, 1935, 111: 35. Nerve activity as modified by temperature changes, 1931, 97: 254.

Potentials in mammalian A fibers, 1936, 116: 57.

Responses of nerve to two trains of rhythmic stimuli, 1937, 119: 315.

GASSER, H. S. and J. ERLANGER. The ending of the axon action potential and its relation to the recovery process in nerve, 1930, 93: 650. The ending of the axon potential, and its relation to other events in nerve

activity, 1930, 94: 247.

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GASSER, H. S. and H. T. GRAHAM. Potentials produced in the spinal cord by stimulation of dorsal roots, 1933, 103: 303.

The end of the spike-potential of nerve and its relation to the beginning of the after-potential, 1932, 101: 37, 316.

GASSER, H. S. and H. GRUNDFEST. Action and excitability in mammalian A fibers, 1936, 117: 113.

GASSER, H. S. See CLARK, HUGHES and GASSER, 1935, 113: 27.

See Clark, Hughes and Gasser, 1935, 114: 69.

See Erlanger and Gasser, 1930, 92: 43.

See GRUNDFEST and GASSER, 1936, 116: 67.

See HINSEY and GASSER, 1930, 92: 679.

See Hughes and Gasser, 1933, 105: 57.

See Hughes and Gasser, 1934, 108: 295, 307.

See RICHARDS and GASSER, 1935, 113: 108 See SCHMITT and GASSER, 1931, 97: 558.

See SCHMITT and GASSER, 1933, 104: 320.

GASSMANN, F. K. See Lewy and Gassmann, 1935, 112: 504.

GAUNT, J. H. See GAUNT, TOBIN and GAUNT, 1935, 111: 321.

GAUNT, R. Adrenalectomy in the rat, 1933, 103: 494.

GAUNT, R. and W. M. PARKINS. The alleged interrelationship of the adrenal cortical hormone and the gonads, 1933, 103: 511.

GAUNT, R., J. W. REMINGTON and M. SCHWEIZER. Some effects of intraperitoneal glucose injections and excess water in normal, adrenalectomized and hypophysectomized rats, 1937, 120: 532.

GAUNT, R. and C. E. TOBIN. Lactation in adrenalectomized rats, 1936, 115: 588. GAUNT, R., C. E. TOBIN and J. H. GAUNT. The survival of salt-treated adrenalectomized rats, 1935, 111: 321.

GAY, H. A comparison of the effects of acid-base changes upon respiratory movements and the response of muscle to direct, indirect and reflex stimulation,

1931, 98: 60.

GAY, H. H. A comparison of the effects of low alveolar oxygen, of sodium cyanide and of sodium sulfide upon respiratory movements and the response of muscle to direct, indirect and reflex stimulation, 1930, 95: 519.

GAYET, R. See ROSENBLUETH and GAYET, 1932, 100: 342.

GAYNOR, E. P. See SHAFER, UNDERWOOD and GAYNOR, 1930, 91: 461.

GEBAUER-FUELNEGG, E. and C. A. DRAGSTEDT. Studies in anaphylaxis. II. The nature of a physiologically active substance appearing during anaphylactic shock, 1932, 102: 520.

See Dragstedt and Gebauer-Fuelnegg, 1932, 102: 512.

GEBAUER-FUELNEGG, E. See Dragstedt and Gebauer-Fuelnegg, 1932, 101:

GEILING, E. M. K., J. F. HERRICK and H. E. ESSEX. The effect of posterior pituitary preparations on the blood flow of the normal intact dog, 1934, 109: 37.

GEILING, E. M. K. and M. R. LEWIS. Further information regarding the melanophore hormone of the hypophysis cerebri, 1935, 113: 534.

GEILING, E. M. K. See GEMMILL, GEILING and REEVES, 1934, 109: 709.

See Hartman, Firor and Geiling, 1930, 95: 662.

See Lewis and Geiling, 1935, 113: 529.

GELFAN, S. Further evidence of the invalidity of the all-or-none principle, 1930, 93: 650.

Studies of single muscle fibres. I. The all-or-none principle, 1930, 93: 1.

Studies of single muscle fibres. III. Further evidence of graded responses in single fibres, 1931, 96: 16.

The effect of viosterol upon oxygen consumption of frog's muscle, 1935, 113: 464.

GELFAN, S. and G. H. BISHOP. Action potentials from single muscle fibers, 1932, 101: 37, 678.

Conducted contractures without action potentials in single muscle fibers, 1933, 103: 237.

GELFAN, S. and R. W. GERARD. Studies of single muscle fibres. II. A further analysis of the grading mechanism, 1930, 95: 412.

GELFAN, S. and J. P. QUIGLEY. Conductivity of blood during coagulation, 1930, 94: 531.

GELFAN, S. and M. B. VISSCHER. The exerction of ammonia by the perfused kidney, 1937, 120: 365.

GELLHORN, E. Fatigue and recovery in muscle, 1931, 97: 521.

Further experiments on direct and indirect SCN-contracture, 1931, 96: 477.

Further studies in muscle fatigue and permeability, 1932, 100: 447.

Ion effects on muscular fatigue and their independence of changes in the metabolism of muscles, 1932, 100: 452.

On the mechanism by which CO₂ offsets the effect of O₂ deficiency, 1937, **119**: 316. On the rôle of CO₂ in counteracting the effects of anoxemia on brain stem and cortex, 1936, **116**: 57.

Oxygen deficiency, carbon dioxide and temperature regulation, 1937, 120: 190.

SCN contracture in skeletal muscle, 1931, 96: 203.

The effectiveness of carbon dioxide in combating the changes in visual intensity discrimination produced by oxygen deficiency, 1936, 117: 75.

The effect of O₂-lack, variations in the CO₂-content of the inspired air, and hyperpnea on visual intensity discrimination, 1936, **115**: 679.

The influence of parathormone on the neuromuscular system: an experimental analysis, 1935, 111: 466.

The sensitivity of the striated muscle to changes in pH, 1933, 105: 353.

The validity of the Hofmeister series in heart and striated muscles, 1932, 101: 38.

GELLHORN, E., H. GELLHORN and J. TRAINOR. The influence of spinal irradiation on cutaneous sensations. I. The localization of pain and touch sensations under irradiation, 1931, 97: 491.

GELLHORN, E. and A. JANUS. The influence of partial pressure of O₂ on body temperature, 1936, 116: 327.

GELLHORN, E. and L. F. MOLDAVSKY. The effect of pH on the absorption of sugars, 1934, 109: 638.

GELLHORN, E. and D. NORTHUP. Does physiological excitation influence permeability in striated muscle?, 1932, 100: 173.

Further quantitative studies in absorption, 1933, 105: 684.

Quantitative investigations on the influence of hormones on absorption. Internal secretions and permeability, II, 1933, 103: 382.

The influence of hormones and drugs affecting the autonomic nervous system on intestinal absorption and permeability, 1933, 105: 36.

GELLHORN, E. and D. NORTHUP.

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The influence of nervous stimulation on absorption from the intestine, 1933, 106: 283.

The influence of spinal irradiation on cutaneous sensations. II. The effect of pain irradiation on temperature sensations, 1933, 104: 537.

The relation between circulatory rate and absorption in the gut, 1934, 108: 469. GELLHORN, E. and A. SKUPA. The K-Ca antagonism in regard to absorption from the intestine, 1933, 106: 318.

GELLHORN, E. and I. G. SPIESMAN. The influence of hyperpnea and of variations of the O₂- and CO₂-tension in the inspired air upon after-images, 1935, 112: 620.

The influence of hyperpnea and of variations of O₂- and CO₂-tension in the inspired air upon hearing, 1935, 112: 519.

The influence of hyperpnea and of variations in the O₂- and CO₂-tension in the inspired air upon nystagmus, 1935, **112**: 662.

GELLHORN, E. See FRYER and GELLHORN, 1933, 103: 392.

See Gellhorn, Gellhorn and Trainor, 1931, 97: 491. See Ingraham, Moldavsky and Gellhorn, 1937, 119: 341.

See Spiesman and Gellhorn, 1935, 113: 125.

GEMMILL, C., W. BOOTH, J. DETRICK and H. SCHIEBEL. Muscular training. II. The effect of training on the recovery period following severe muscular exercise, 1931, 96: 265.

GEMMILL, C., W. BOOTH and B. POCOCK. Muscular training. I. The physiological effect of daily repetition of the same amount of light muscular work, 1930, 92: 253.

GEMMILL, C. L. The effect of exercise on the acetone bodies in the blood of man on low carbohydrate diet, 1934, 108: 55.

The effect of exercise on the acetone bodies in the blood of man on low carbohydrate diet, 1934, 109: 38.

The "excess respiratory quotient" of the recovery period following strenuous muscular exercise in man, 1931, 98: 135.

The respiratory metabolism of stimulated frog's muscle, 1936, 115: 371.

The respiratory metabolism of stimulated frog's muscle, 1936, 116: 58.

The respiratory quotient of the recovery period following strenuous muscular

exercise, 1931, 97: 521.

The respiratory quotient of working isolated muscles with low carbohydrate content, 1932, 101: 39.

The utilization of carbohydrate during aerobic activity in isolated frogs' muscle, 1935. 112: 294.

The utilization of carbohydrate during aerobic activity in isolated frog's muscles, 1935, 113: 47.

GEMMILL, C. L., E. M. K. GEILING and D. L. REEVES. The respiratory effect of prolonged anoxemia in normal dogs before and after denervation of the carotid sinuses, 1934, 109: 709.

GEMMILL, C. L. and L. HELLERMAN. The reversible inactivation of glycolysis by mercury compounds, 1937, 119: 317.

The reversible inhibition of muscle glycolysis, 1937, 120: 522.

GEMMILL, C. L., E. W. OVERSTREET and L. M. HELLMAN. The effect of occlusion of the carotid arteries on heart rate and respiratory rate before and after denervation of the carotid sinus in normal dogs, 1933, 104: 443.

The effect of occlusion of the carotid arteries on heart and respiratory rates before and after denervation of the carotid sinus in normal dogs, 1933, 105:

GEMMILL, C. L. and D. L. REEVES. The effect of anoxemia in normal dogs before and after denervation of the carotid sinuses, 1933, 105: 487.

GEMMILL, C. L. and B. A. RIBEIRO. A study of the phosphates in the blood after strenuous muscular exercise, 1933, 103: 367.

GENITIS, V., J. TOWNE, M. C. PATRAS and R. D. TEMPLETON. The effect of yeast on the survival period of albino rats in experimental hyperthyroidism, 1936, 116: 58.

GENITIS, V. See FREY, GENITIS, SCHOUR and TEMPLETON, 1936, 116: 53.

GENITIS, V. E., E. L. BORKON and R. D. TEMPLETON. The influence of temperature on parathyroid tetany in the albino rat, 1935, 113: 48.

GERARD. See COHEN and GERARD, 1937, 119: 34.

GERARD, R. W. A modified Warburg apparatus and some applications, 1931, 97: 522.

Delayed action potentials in nerve, 1930, 93: 337.

The influence of methylene blue and of sodium iodoacetate on glycolysis, 1931, 97: 523.

The response of nerve to oxygen lack, 1930, 92: 498.

GERARD, R. W. and L. H. HYMAN. The cyanide insensitivity of paramecium, 1931, 97: 524.

GERARD, R. W. and W. H. MARSHALL. Nerve conduction velocity and equilibration, 1932, 101: 39.

Nerve conduction velocity and equilibration, 1933, 104: 575.

GERARD, R. W., W. H. MARSHALL and L. J. SAUL. Brain action potentials, 1934, 109: 38.

GERARD, R. W. and M. McINTYRE. The effect of thyroid feeding on tissue respiration, 1933, 103: 225.

GERARD, R. W. and H. SEROTA. Localized thermal changes in the brain, 1936, 116: 59.

GERARD, R. W. and E. U. STILL. Studies on the physiology of secretin. V. The effects on the respiration of the excised pancreas, 1933, 103: 232.

GERARD, R. W. and N. TUPIKOW. Creatine in nerve and muscle, 1931, 97: 523. GERARD, R. W. See ABRAMS and GERARD, 1933, 104: 590.

See BALDRIDGE and GERARD, 1933, 103: 235.

See BLAKE and GERARD, 1937, 119: 692.

See BOYD and GERARD, 1930, 92: 656.

See Brookens, Ectors and Gerard, 1936, 116: 16.

See CHANG and GERARD, 1931, 97: 511.

See CHANG and GERARD, 1933, 104: 291.

See Chang, Gerard and Shaffer, 1932, 101: 19.

See CHANG, SHAFFER and GERARD, 1935, 111: 681.

See COHEN and GERARD, 1933, 105: 22.

See Cohen and Gerard, 1934, 109: 21.

See Cohen, Gerard and Tupikow, 1934, 109: 22.

See Cook and GERARD, 1931, 97: 412.

See Dubner, Gerard and Kobrak, 1936, 116: 38.

See GELFAN and GERARD, 1930, 95: 412.

See Holmes, Gerard and Solomon, 1930, 93: 342.

See Marshall and Gerard, 1933, 104: 586.

See NECHELES and GERARD, 1930, 93: 318.

See Schoen and Gerard, 1937, 119: 397.

See Shaffer, Chang and Gerard, 1935, 111: 697.

See Tupikova and Gerard, 1937, 119: 414.

GERBASI, M. J. See ADOLPH and GERBASI, 1933, 106: 35.

See ADOLPH, GERBASI and LEPORE, 1932, 101: 1.

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See Adolph, Gerbasi and Lepore, 1933, 104: 502.

See Adolph, Gerbasi and Lepore, 1933, 105: 1.

See ADOLPH, GERBASI and LEPORE, 1934, 107: 647.

GERMAN, W. J. See HALPERT, GERMAN and HOPPER, 1933, 103: 351.

See Wearn, Ernstene, Bromer, Barr, German and Zschiesche, 1934, 109: 236.

GERSH, I. The tubular elimination of phenol red in the rabbit kidney, 1934, 108: 355.

GERSH, D. H. See BANUS, ZETLIN and GERSH, 1936, 116: 4.

GESELL, R. An electrically driven contact breaker suitable for studies in chron-axie, summation, etc., 1933, 105: 36.

Fusillade patterns of inspiratory and expiratory muscles and their effects on the respiratory act, 1936, 116: 60, 228.

Individuality of breathing, 1936, 115: 168.

Studies on respiration with action potential methods, 1933, 105: 37.

GESELL, R., J. BRICKER and C. MAGEE. Potentials associated with the respiratory act and their localization in the central grey axis stem, 1935, 113: 48.
Structural and functional organization of the central mechanism controlling breathing, 1936, 117: 423.

GESELL, R., R. CULVER, J. BRICKER and C. MAGEE. Action potentials central and peripheral, 1935, 113: 49.

GESELL, R., H. KRUEGER, G. GORHAM and T. BERNTHAL. The regulation of respiration: A study of the correlation of numerous factors of respiratory control during altered pressures of alveolar oxygen, 1930, 94: 300.

The regulation of respiration: A study of the correlation of numerous factors of respiratory control during hemorrhage and reinjection, 1930, 94: 365.

The regulation of respiration: A study of the correlation of numerous factors of respiratory control during intravenous injection of sodium cyanide and recovery, 1930, 94: 339.

The regulation of respiration: A study of the correlation of numerous factors of respiratory control following administration of hydrochloric acid, of carbon dioxide, and the simultaneous administration of carbon dioxide and sodium bicarbonate, 1930, 94: 402.

The regulation of respiration: A study of the correlation of numerous factors of respiratory control following intravenous injection of sodium bicarbonate, 1930, 94: 387.

The regulation of respiration: A study of the correlation of numerous factors of respiratory control produced by intravenous injection of ammonium chloride, methylene blue, strychnine and sodium sulphide, 1930, 94: 427.

GESELL, R., H. KRUEGER, H. NICHOLSON, C. BRASSFIELD and M. PELECO-VICH. A comparison of the response of the anesthetized dog to intravenous administration of sodium cyanide during uniform artificial ventilation and during normally controlled ventilation with additional observations on the effects of methylene blue, 1932, 100: 227.

A comparison of the response of the anesthetized dog to lowered alveolar oxygen during uniform artificial ventilation and during normally controlled ventila-

tion, 1932, 100: 202.

GESELL, R. and C. A. MOYER. Changes in respiratory movements accompanying chemical administrations, 1932, 101: 41.

Changes in respiratory movements occurring as a result of nerve section and stimulation of sensory nerves, 1932, 101: 40.

GESELL, R. and C. A. MOYER.

Factors which determine the rate and depth of breathing, 1937, 119: 55.

Is breathing fundamentally a reflex phenomenon, 1934, 109: 39.

Spontaneous changes in type of breathing and changes occurring in respiratory movements under varying mechanical conditions, 1932, 101: 39.

GESELL, R., E. H. STEFFENSEN and J. M. BROOKHART. The interaction of the rate and depth components of respiratory control, 1937, 120: 105.

GESELL, R. and F. WHITE. The recruitment of inspiratory and expiratory mechanical energy in hyperpnea produced by the administration of sodium cyanide, 1937, 119: 317.

GESELL, R. See BROOKENS, STEFFENSEN and GESELL, 1936, 116: 17.

See Brookhart, Steffensen and Gesell, 1936, 115: 357.

See Brookhart, Steffensen and Gesell, 1937, 119: 280, 517.

See Magee, Bricker and Gesell, 1937, 119: 370. See Winder, Owen and Gesell, 1932, 101: 103.

See WINDER, WINDER and GESELL, 1933, 105: 101, 311.

GIANTURCO, C. and B. R. KIRKLIN. Visualization of the walls of the gall bladder, 1933, 106: 46.

GIANTURCO, C. and F. R. STEGGERDA. The effects of various stimuli on the shifting of blood in experimental animals, 1936, 116: 60.

GIANTURCO, C. See STEGGERDA and GIANTURCO, 1936, 116: 150.

GIANTURCO, C. C. See STEGGERDA and GIANTURCO, 1935, 113: 126.

GIBBS, E. L. See GIBBS, GIBBS and LENNOX, 1935, 111: 557.

See GIBBS, LENNOX and GIBBS, 1936, 116: 61.

GIBBS, F. A. Regulation of frequency in the cerebral cortex, 1937, 119: 317.

GIBBS, F. A. and H. DAVIS. Changes in the human electroencephalogram associated with loss of consciousness, 1935, 113: 49.

GIBBS, F. A., E. L. GIBBS and W. G. LENNOX. Changes in human cerebral blood flow consequent on alterations in blood gases, 1935, 111: 557.

GIBBS, F. A., W. G. LENNOX and E. L. GIBBS. Localizable features of the electrical activity of the brain in petit mal epilepsy, 1936, 116: 61.

GIBBS, F. A. See Davis, GIBBS and GARCEAU, 1935, 113: 34.

GIBBS, G. E. See CHAIKOFF, GIBBS, HOLTOM and REICHERT, 1936, 116: 543.

GIBBS, R. C., J. R. JOHNSON and C. V. SHAPIRO. The ultraviolet absorption spectrum of hemolyzed blood corpuscles in relation to rickets, 1931, 97: 243.

GIBSON, J. G., 2ND and M. I. GREGERSEN. Toxicity of two vital dyes used in plasma volume determinations, 1935, 113: 50.

GIBSON, J. G., 2ND. See Evans and Gibson, 1937, 118: 251.
See Gregersen and Gibson, 1937, 120: 494.

GIBSON, J. J. See GREGERSEN, GIBSON and STEAD, 1935, 113. 54.

GIBSON, R. B. Latent tolerance in diabetes mellitus, 1932, 101: 41.

See Andersch, Clark and Gibson, 1934, 109: 2.

See CLARK and GIBSON, 1933, 105: 19.

See Clark and Gibson, 1935, 113: 27.

See Clark and Gibson, 1936, 116: 27.

See CLARK, GIBSON and SNYDER, 1934, 109: 20.

GIERE, E. See FAHR, DAVIS, KERKHOF, HALLOCK and GIERE, 1932, 101: 33, 376.

GIJSBERS, J. A. See Patterson, Scantlebury and Gijsbers, 1935, 113: 104.

GILLARD, J. L. The effects of hysterectomy on mammary gland development in a rabbit, 1937, 120: 300.

GILMAN, A. Experimental sodium loss analogous to adrenal insufficiency: the resulting water shift and sensitivity to hemorrhage, 1934, 108: 662. GILMAN, A.

The differences in voluntary water intake following the intravenous administration of hypertonic NaCl and urea, 1935, 113: 50.

The relation between blood osmotic pressure, fluid distribution and voluntary water intake, 1937, 120: 323.

GILMAN, A. and H. G. BARBOUR. The relation between blood osmotic pressure and insensible weight loss, 1933, 104: 392.

GILMAN, A. and G. R. COWGILL. A contribution to the study of the osmotic relations between blood and gastric juice, 1931, 97: 525.

A study of the osmotic relations of blood and gastric juice, 1932, 101: 42.

Osmotic relations between blood and body fluids. II. The osmotic relation of blood and gastric juice, 1933, 103: 143.

Osmotic relations between blood and body fluids. IV. Pancreatic juice, bile and lymph, 1933, 104: 476.

Osmotic relations of blood and glandular secretions. I. The regulatory action of total blood electrolytes on the concentration of gastric chlorides, 1931, 99: 172.

The effect of histamine upon the secretion of gastric pepsin, 1930, 97: 124.

GILMAN, A. and L. GOODMAN. Pituitrin anemia, 1937, 118: 241.

GILMAN, A. and A. M. YUDKIN. Osmotic relations between blood and body fluids. III. The osmotic relation of blood and aqueous humor, 1933, 104: 235.

GILMAN, A. See BARBOUR and GILMAN, 1934, 107: 70.

See Himwich, Fazikas, Nahum, Dubois, Greenburg and Gilman, 1934, 110: 19. See Roe, Gilman and Cowgill, 1935, 110: 531.

GILMAN, G. See WELKER, GILMAN and HEKTOEN, 1933, 106: 475.

GILSON, A. S. A quantitative study of peripheral summation. The effect on the turtle atrium of repeated stimulation of the vagus nerve, 1933, 105: 38.
Factors determining junctional block in hearts and heart strips, 1934, 109: 40.

Vagus inhibition and interference with conduction of the cardiac impulse, 1935, 113: 51.

GILSON, A. S. and G. H. BISHOP. The effect of remote leads upon the form of the recorded electrocardiogram, 1937, 118: 743.

The interpretation of electrograms obtained from heart strips in a conducting medium, 1934, 109: 40.

GILSON, A. S., JR. An analysis of the chronotropic function of the cardiac vagus nerves, 1937, 120: 571.

A unified concept of the mode of vagal cardio-inhibition, 1937, 119: 318.

Determinations of refractory periods in the turtle heart, 1935, 112: 610.

Factors determining block of the conducted cardiac impulse, 1934, 110: 376.

Further studies upon vagal inhibition of the turtle atrium, 1930, 93: 650.

Integration of nerve impulse effects, 1932, 101: 42.

The effects upon the heart rhythm of premature stimuli applied to the pacemaker and to the atrium, 1936, 116: 358.

Vagal depression of the turtle atrium, 1932, 100: 459.

GILSON, A. S., JR. and H. B. PEUGNET. The effects upon cardiac musculature of subthreshold electrical currents, 1932, 100: 671.

GILSON, A. S., JR. and E. IRVINE-JONES. Effects of cold and of veratrin upon the action potential of ventricular muscle, 1930, 92: 165.

The effect of repetitive stimulation upon the duration of the electrical response of ventricular muscle, 1930, 92: 160.

GILSON, A. S., JR. See PEUGNET and GILSON, 1932, 101: 83.

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GINSBERG, A. M. See STOLAND and GINSBERG, 1933, 105: 92.

GINSBURG, E. See Banus and Ginsburg, 1931, 97: 502.

See Banus and Ginsburg, 1932, 101: 106.

GIRAGOSINTZ, G. and J. M. D. OLMSTED. Possible sources of error in weights of small muscles frozen in liquid air, 1930, 92: 414.

GIRDEN, E. See Brogden, Girden, Mettler and Culler, 1936, 116: 252.
See Culler, Finch and Girden, 1935, 111: 416.

GLADSTONE, S. A. Effect of posture and prolonged rest on the cardiac output and related functions, 1935, 112: 705.

GLASSER, O. The measurement of mitogenetic radiation from living organisms, 1934, **109:** 41.

See CRILE, GLASSER, TELKES and ROWLAND, 1932, 101: 26.

GLASSMAN, H. N. See JACOBS, GLASSMAN and PARPART, 1936, 116: 84.

GLICKMAN, N. The effect of diminution of barometric pressure on the sensitivity of rats to insulin, 1936, 116: 61.

GLICKMAN, L. G. See Schlomovitz, Thompson and Glickman, 1935, 113: 115.

GOETTSCH, M. Relationship between vitamin C and some phases of reproduction in the guinea pig, 1930, 95: 64.

GOETTSCH, M. and A. M. PAPPENHEIMER. Brain weight and moisture content in normal chicks and those with nutritional encephalomalacia, 1936, 115: 610.

GOLAND, P. P. See Morgan and Goland, 1932, 101: 274.

GOLDBERG, S. L. The afferent paths of nerves involved in the vomiting reflex induced by distention of an isolated pyloric pouch, 1931, 99: 156.

GOLDBLATT, H. See Dominguez, Goldblatt and Pomerene, 1935, 114: 240. See Dominguez, Goldblatt and Pomerene, 1937, 119: 429. See Summerville, Hanzal and Goldblatt, 1932, 102: 1.

GOLDEN, J. S. See MEYER, GOLDEN, STEINER and NECHELES, 1937, 119: 600.

GOLDFARB, W. A study of ketosis in primates, 1936, 116: 61.

GOLDFARB, W., S. BARKER and H. E. HIMWICH. A study of ketosis in the rat, 1934, 109: 41.

GOLDFARB, W., J. F. FAZEKAS and H. E. HIMWICH. The effect of methylene blue, cystine and cysteine on the metabolism of the intact animal, 1936, 117: 631.

GOLDFARB, W. and H. E. HIMWICH. Changes of the RQ following the injection of methylene blue, cysteine or cystine, 1935, 113: 51.

GOLDFARB, W. See Himwich and Goldfarb, 1933, 105: 50.

See Himwich, Goldfarb and Cowgill, 1932, 99: 689.

See Himwich, Goldfarb and Fazikas, 1936, 114: 273.

See Himwich, Goldfarb and Nahum, 1934, 109: 403.

See Himwich, Goldfarb, Rakeiten, Nahum and Du Bois, 1934, 110: 352.

GOLDMAN, G. S. See Himwich, Goldman and Krosnick, 1932, 102: 365.

GOLDRING, W., R. W. CLARKE and H. W. SMITH. Phenol red, inulin and urea clearances in renal disease, 1936, 116: 62.

GOLDRING, W. See SMITH and GOLDRING, 1937, 119: 406.

GOLDSCHMIDT, S. and B. McGLONE. Effect of oxygen absorbed through the skin upon the vascular reaction to stasis and to histamine, 1934, 109: 42.

GOLDSCHMIDT, S. See BAZETT, GOLDSCHMIDT, McGLONE and SRIBYATTA, 1937, 119: 268.

See McGlone, Goldschmidt and Donal, 1934, 109: 72.

GOLDSTEIN, L. A. and A. J. TATELBAUM. Physiology of the corpus luteum.

IV. Production of artificial deciduomata with extracts of the corpus luteum,
1929, 91: 14.

GOLDSTEIN, L. A., A. J. TATELBAUM, S. EHRE and J. R. MURLIN. Glucose tolerance in the phlorhizinized dog as affected by renal vessel ligation and by insulin, 1932, 101: 166.

GOLDSWORTHY, E. See GREISHEIMER and GOLDSWORTHY, 1933, 105: 40.

GOMEZ, E. T. See GARDNER, GOMEZ and TURNER, 1935, 112: 673.

GOODMAN, E. N. See QUIGLEY, BARCROFT, ADAIR and GOODMAN, 1937, 119: 763.
GOODMAN, L. Effect of total absence of function on the optic system of rabbits,

1932. 100: 46.

GOODMAN, L. and G. B. WISLOCKI. Note on the failure of anterior lobe extract to pass from mother to fetus in rabbits and cats, 1933, 106: 323.

GOODMAN, L. See GILMAN and GOODMAN, 1937, 118: 241.

GOODMAN, LeR. The effect of urine from pregnant women on the ovary-stimulating potency of the hypophyses of rabbits and rats, 1935, 111: 312.

GOODWIN, T. W. and G. M. HIGGINS. Diurnal changes in the liver during pregnancy, 1934, 108: 567.

GORBMAN, A. See CREASER and GORBMAN, 1935, 113: 32.

GORDON, A. S. and M. DUBIN. On the alleged presence of "hemopoietine" in the blood serum of rabbits either rendered anemic or subjected to low pressures, 1934, 107: 704.

GORDON, A. S. and W. KLEINBERG. A study of the relation of the spleen to erythropoiesis and red cell destruction in the guinea pig, 1937, 118: 757.

GORDON, A. S., W. KLEINBERG and E. PONDER. Decreased red cell fragility after splenectomy, 1937, 120: 150.

GORDON, A. S. See PONDER, DUBIN and GORDON, 1934, 108: 125.

GORDON, W., A. S. ALVING, N. R. KRETZSCHMAR and L. ALPERT. Variations in the extraction of urea by the kidney and their relation to the amount of urea reabsorbed, 1937, 119: 483.

GORHAM, F. See Danforth and Gorham, 1937, 119: 294.

GORHAM, G. See GESELL, KRUEGER, GORHAM and BERNTHAL, 1930, 94: 300, 339, 365, 387, 402, 427.

GORTNER, R. A. See WILKERSON and GORTNER, 1932, 102: 153.

GOSLIN, R. See Jones and Goslin, 1933, 105: 693.

GOSS, A. L. See HARGER and Goss, 1935, 112: 374.

GOSS, H. See Cole, Guilbert and Goss, 1932, 102: 227.

GOTTLIEB, J. S. The effect of changes in the environmental temperature on the blood pressure and pulse rate in normal men, 1935, 113: 181.

GOTTLIEB, R. See KAUFMANN and GOTTLIEB, 1931, 96: 40.

GOUAUX, J. L., S. C. CORDILL and A. G. EATON. The metabolism of bilaterally nephrectomized dogs, 1936, 116: 62.

GOUAUX, J. L. See Ashman and Gouaux, 1937, 119: 261. See Eaton, Cordill and Gouaux, 1935, 113: 37.

See Eaton, Cordill and Gouaux, 1936, 116: 40.

GRAFFLIN, A. L. Urine flow and diuresis in marine teleosts, 1931, 97: 602.
GRAHAM, C. F. and A. W. WRIGHT. The excretion of caesium by the albino mouse, 1933, 106: 314.

GRAHAM, C. F. See RANDLES and GRAHAM, 1933, 105: 82.

GRAHAM, C. H. A study of the rôle of inhibition in color contrast, 1932, 101: 43.

GRAHAM, C. H. and R. GRANIT. Comparative studies on the peripheral and central retina. VI. Inhibition, summation, and synchronization of impulses in the retina, 1931, 98: 664.

GRAHAM, C. H. and R. MARGARIA. Area and the intensity-time relation in the peripheral retina, 1935, 113: 299.

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GRAHAM, C. H. See HARTLINE and GRAHAM, 1934, 109: 49.
See KEMP and GRAHAM, 1935, 113: 81.

GRAHAM, H. T. Agents modifying the effect of subthreshold induction shocks. 1935. 113: 52.

Modification of nerve after-potential and refractory period by changes of ionic environment: new cases of physiological antagonism between univalent and bivalent cations, 1933, 104: 216.

Supernormality, a modification of the recovery process in nerve, 1934, 110: 225. The effect of the development of the supernormal period on the relatively refractory period of isolated frog nerve, 1934, 109: 42.

The subnormal period of nerve response, 1935, 111: 452.

Velocity of conduction in the supernormal phase following nerve response, 1933, 105: 38.

GRAHAM, H. T. and R. LORENTE DE NÓ. Rate of conduction in mammalian nerves in vivo, 1936, 116: 63.

GRAHAM, H. T. See Gasser and Graham, 1932, 101: 37, 316.

See Gasser and Graham, 1933, 103: 303.

See LORENTE DE NÓ and GRAHAM, 1936, 116: 97.

GRALNICK, A. See Jochim, Bohning, Rottersman and Gralnick, 1935, 113: 71.

GRANIT, R. Comparative studies on the peripheral and central retina. I. On interaction between distant areas in the human eye, 1930, **94**: 41.

Effects of summation in the peripheral and central retina of the human eye, 1930, 93: 651.

Temporal summation of subliminal visual stimuli, 1931, 97: 525.

GRANIT, R. and W. A. DAVIS. Comparative studies on the peripheral and central retina. IV. Temporal summation of subliminal visual stimuli and the time course of the excitatory after-effect, 1931, 98: 644.

GRANIT, R. and E. L. HAMMOND. Comparative studies on the peripheral and central retina. V. The sensation-time curve and the time course of the fusion frequency of intermittent stimulation, 1931, 98: 654.

GRANIT, R. and P. HARPER. Comparative studies on the peripheral and central retina. II. Synaptic reactions in the eye, 1930, 95: 211.

GRANIT, R. and W. VON AMMON. Comparative studies on the peripheral and central retina. III. Some aspects of local adaptation, 1930, 95: 229.

GRANIT, R. See GRAHAM and GRANIT, 1931, 98: 664.

GRANT, J. See Spies and Grant, 1933, 104: 18.

GRAY, J. A comparative study of the effects of histamine, acetyl- β -methylcholine and atropine on gastric secretion, 1937, 119: 319.

GRAY, J., M. S. KIM and A. C. IVY. Is a portion of the pancreatic secretory response to a meal due to the absorption of digested food products, 1936, 116: 210.

GRAY, J. See CUTHBERT, IVY, ISAACS and GRAY, 1936, 115: 480.
GRAY, J. S. The effect of atropine on gastric secretion and its relation to the

gastrin theory, 1937, 120: 657.

GRAY, J. S., W. B. BRADLEY and A. C. IVY. On the preparation and biological

assay of enterogastrone, 1937, 118: 463.

GRAY, J. S. and A. C. IVY. Effects of mecholyl on gastric secretion, 1937, 120: 705.

GRAY, J. S. and A. C. IVY. Effects of mecholyl on gastric secretion, 1937, 120: 705. GRAY, J. S. See GREENGARD, GRAY and IVY, 1935, 113: 53.

GREAVES, J. D. and C. L. A. SCHMIDT. On the absorption and utilization of carotene and vitamin A in choledochocolonostomized vitamin A deficient rats, 1935, 111: 492.

Studies on the vitamin A requirements of the rat, 1936, 116: 456.

The utilization of carotene by jaundiced and phosphorus treated vitamin A deficient rats, 1935, 111: 502.

GREELEY, C. E. and P. O. GREELEY. Circulatory changes during periodic ventilation with apneas produced by marked curtailment of blood flow to the brain, 1930, 95: 382.

GREELEY, C. E. See Greeley and Greeley, 1930, 95: 371.

GREELEY, P. O. The basal insulin requirement of depancreatized dogs, 1937,

GREELEY, P. O. and C. E. GREELEY. Circulatory changes during periodic breathing produced by moderate obstruction to the cerebral arteries, 1930, 95: 371.

GREELEY, P. O. See Drury, Bergman and Greeley, 1936, 117: 323. See Greeley and Greeley, 1930, 95: 382.

GREEN, H. See GREGG and GREEN, 1934, 109: 44.

GREEN, H. D. Modifications of coronary flow during aortic insufficiency, independent of changes in mean aortic pressures, 1934, 109: 43.

The coördirectograph, 1936, 116: 64.

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The coronary blood flow in aortic stenosis, in aortic insufficiency and in arteriovenous fistula, 1936, 115: 94.

The nature of ventricular alternation resulting from reduced coronary blood flow, 1936, 114: 407.

GREEN, H. D., D. E. GREGG and C. J. WIGGERS. Further attempts to evaluate phasic changes of coronary flow by means of differential pressures, 1935,

The phasic changes in coronary flow established by differential pressure curves, 1935, 112: 627.

GREEN, H. D. and E. C. HOFF. Cardiovascular changes resulting from stimulation of the cerebral cortex, 1936, 116:63.

Effects of faradic stimulation of the cerebral cortex on limb and renal volumes in the cat and monkey, 1937, 118:641.

GREEN, H. D. See GREGG, GREEN and WIGGERS, 1935, 112: 362. See GREGG, GREEN and WIGGERS, 1935, 113: 55. See Hoff and GREEN, 1936, 117: 411.

GREEN, M. F. and A. DE GROAT. Observations on the late effects of denervation of the carotid sinuses and section of the depressor nerves, 1935, 112: 488.

GREEN, M. F., A. F. DE GROAT and C. H. McDONALD. Observations on denervation of the carotid sinuses and section of the depressor nerves as a method of producing arterial hypertension, 1935, 110: 513.

GREEN, M. F. and M. M. KUNDE. The acidity of the gastric contents of normal, cretin and hyperthyroid rabbits, 1930, 95: 626.

GREEN, M. F. See Kunde, Green and Burns, 1932, 99: 469. See Kunde, Green, Changnon and Clark, 1932, 99: 463.

See McDonald, Shepeard, Green and De Groat, 1935, 112: 227.

GREEN, R. G. and C. L. LARSON. Shock disease of wild snowshoe rabbits, 1937, 119: 319.

GREENBERG, L. A. Quantitative determination of lactic acid in body fluids by means of iodine pentoxide, 1936, 116:65.

GREENBERG, L. A. and Y. HENDERSON. The effect of glycocyamine upon respiration, 1936, 116: 65.

GREENBERG, L. A. See HAGGARD and GREENBERG, 1932, 101: 48.

See HAGGARD and GREENBERG, 1934, 109: 46.

See Henderson and Greenberg, 1934, 107: 37.

See Henderson and Greenberg, 1934, 109: 51.

See HENDERSON and GREENBERG, 1937, 119: 332.

See Henderson, Oughterson, Greenberg and Searle, 1936, 114: 261. 269.

See HENDERSON, RADLOFF and GREENBERG, 1933, 105: 49.

GREENBERG, M. M. See Moore and Greenberg, 1937, 118: 217.

GREENBURG, L. See Himwich, Fazikas, Nahum, Dubois, Greenburg and Gilman, 1934, 110: 19.

GREENE, C. H. See JORDAN and GREENE, 1930, 91: 409.

See Snell and Greene, 1930, 92: 630.

GREENE, C. W. An analysis of the efferent pathways and vasomotor control of the coronary circulation in the dog, 1931, 97: 526.

Control of the coronary blood flow by reflexes arising in widely distributed regions of the body, 1935, 113: 399.

Coronary responses associated with voluntary neuro-muscular activity, 1937, 119: 320.

Evidence of superior cervical pathways for efferent coronary dilator neurones in the dog, 1935, 113: 53.

Evidence that the coronary constrictor neurones are of thoracic sympathetic origin and not true vagal or parasympathetic neurones, 1933, 105: 38.

On the vagus as a pathway of efferent coronary constrictor nerves, 1934, 109: 44. Reflex cardiac reactions through the phrenic nerves as afferent pathways, 1930, 93: 651.

The nerve control of the coronary vessels with new experimental evidence for the pathways of efferent constrictor and dilator neurones in the dog, 1935, 113: 361.

GREENE, C. W. and J. A. ATKINS. The influence of adrenalin on the coronary flow in the dog, 1931, 97: 526.

GREENE, C. W. and K. E. MANEVAL. The peripheral innervation of the heart as revealed by the specific action of the myoneural drugs on isolated strips of the turtle's heart, 1932, 101: 43.

GREENE, J. A. and L. W. SWANSON. Observations on the expiratory chest volume during air hunger produced by physical exertion, 1936, 116: 66.

GREENE, J. A. See Coggeshall and Greene, 1933, 105: 103.
See Paul, Greene and Feller, 1937, 119: 383.

GREENGARD, H., J. S. GRAY and A. C. IVY. Enterogastrone, 1935, 113: 53.

GREENGARD, H. See FERGUSON, IVY and GREENGARD, 1936, 117: 701.

See Jung and Greengard, 1932, 101:61.

See Jung and Greengard, 1933, 103: 275.

See TANTURI. IVY and GREENGARD, 1937, 120: 336.

See Voegtlin, Greengard and Ivy, 1934, 110: 198.

GREEP, R. See Fevold, Hisaw and Greep, 1936, 114: 508.

See Fevold, Hisaw and Greep, 1936, 117:68.

GREEP, R. O. Separation of a thyrotropic from the gonadotropic substances of the pituitary, 1935, 110: 692.

GREER, R. H. See STOLAND, GREER and BLOOD, 1937, 119: 410.

GREGERSEN, M. The physiological mechanism of thirst, 1932, 101:44.

GREGERSEN, M. I. A method for uniform stimulation of the salivary glands in the unanesthetized dog by exposure to a warm environment, with some observations on the quantitative changes in salivary flow during dehydration, 1931, 97:107.

Studies on the regulation of water intake. II. Conditions affecting the daily water intake of dogs as registered continuously by a potometer, 1932, 102: 344.

GREGERSEN, M. I. and L. T. BULLOCK. Observations on thirst in man in relation to changes in salivary flow and plasma volume, 1933, 105: 39.

GREGERSEN, M. I. and W. B. CANNON. Studies on the regulation of water intake. I. The effect of extirpation of the salivary glands on the water intake of dogs while panting, 1932, 102: 336.

63

GREGERSEN, M. I. and J. G. GIBSON, 2ND. Conditions affecting the absorption spectra of vital dyes in plasma, 1937, 120: 494.

GREGERSEN, M. I., J. J. GIBSON and E. A. STEAD. Plasma volume determination with dyes: errors in colorimetry; use of the blue dye T-1824, 1935, 113: 54.

GREGERSEN, M. I. and E. N. INGALLS. The influence of rate of secretion on the concentrations of potassium and sodium in dog's submaxillary saliva, 1931, 98: 441.

GREGERSEN, M. I. and J. O. PINKSTON. The effect of adrenalin on the plasma volume of normal and sympathectomized dogs, 1936, 116: 66.

GREGERSEN, M. I. and G. W. THORN. The effect of changes in the electrolyte balance on the volume of plasma and extracellular fluid, 1937, 119: 320.

GREGERSEN, M. I. and L. WRIGHT. The effect of intravenous injection of sucrose and glucose upon the reducing power of cerebrospinal fluid, before and after hydrolysis, 1935, 112: 97.

GREGERSEN, M. I. See Bullock, Gregersen and Kinney, 1935, 112: 82.

See Bullock, Kinney and Gregersen, 1934, 109: 17.

See Gibson and Gregersen, 1935, 113: 50.

See Pierce and Gregersen, 1937, 120: 246.

See Pinkston and Gregersen, 1935, 113: 106.

GREGG, D. The circulatory effects of acute experimental hypervolemia, 1933,

GREGG, D. E. An optical blood pressure manometer, 1937, 119: 321.

Can the production of carbohydrate from fat be demonstrated in the perfused liver of the dog?, 1930, 93: 652.

The calorigenic action of lecithin, 1932, 100: 597.

The calorigenic action of lecithin, 1932, 101: 45.

Phasic blood flow and its determinants in the right coronary artery, 1937, 119: 580.

The effect of intravenous administration of lecithin and sodium chloride on blood sugar values, 1933, 104: 344.

The phasic and minute coronary flow during acute experimental hypertension, 1936, **114**: 609.

The phasic coronary blood flow in hypotension, 1937, 119: 321.

The phasic variations in coronary flow, studied by an autoperfusion method,

The relation of carbohydrates and lipids in the perfused liver, 1933, 103:79.

The systolic and diastolic blood flow in the right coronary artery, 1936, 116: 67.

GREGG, D. E., R. W. ECKSTEIN and M. H. FINEBERG. Pressure pulses and blood pressure values in unanesthetized dogs, 1937, 118: 399.

GREGG, D. E. and H. GREEN. Demonstrations of phasic variations of coronary flow by an autoperfusion method and of the effects of aortic insufficiency on mean coronary flow, 1934, 109: 44.

GREGG, D. E., H. D. GREEN and C. J. WIGGERS. Determinants of peripheral pressure pulses in a coronary ramus, 1935, 113: 55.

Phasic variations in peripheral coronary resistance and their determinants, 1935, 112: 362.

GREGG, D. E. and C. J. WIGGERS. The circulatory effects of acute experimental hypervolemia, 1933, 104: 423.

GREGG, D. E. See GREEN, GREGG and WIGGERS, 1935, 112: 627.

See Green, Gregg and Wiggers, 1935, 113: 52.

GREISHEIMER, E. See FAY, GREISHEIMER, HAFKESBRING, ANDERSCH, KENYON, MacCalmont, Sharpe and Cortell, 1937, 119: 306.

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GREISHEIMER, E. M. Blood sugar changes during sixty-hour fasts, 1934, 109: 45.
GREISHEIMER, E. M. and F. P. ARNY. Blood chemistry variations in fifty women and fifty men, 1932, 101: 45.

Glycogen formation from amino acids, 1931, 97: 526.

GREISHEIMER, E. M. and E. GOLDSWORTHY. Glucose tolerance test in relatives of diabetic patients, 1933, 105: 40.

GREISHEIMER, E. M. and O. H. JOHNSON. Glycogen formation in rats, 1930, 93: 653.

Glycogen formation in rats. I. Diets containing about sixty per cent of the total caloric value in the form of starch, sucrose, lard and casein, 1930, 94: 11.

GREISHEIMER, E. M. See HEMINGWAY and GREISHEIMER, 1932, 101: 54.

GRIFFIN, A. M. and W. F. WINDLE. The relation of the level of transection of the brain stem to the occurrence of decerebrate rigidity in newborn rabbits, 1931, 97: 397.

GRIFFITH, F. R., JR. and F. E. EMERY. Some metabolic effects of clamping visceral arteries, splanchnic vasoconstriction and adrenal and hepatic stimulation: with special reference to the calorigenic action of adrenin and sympathin, 1935, 111: 369.

The differential calorigenic action of the liver and adrenals, 1931, 97: 527.

The vasomotor control of the liver circulation, 1930, 95: 20.

GRIFFITH, F. R., JR. See Schwabe and Griffith, 1936, 116: 140.

GRIFFITH, J. Q., JR., W. A. JEFFERS and M. A. LINDAUER. A study of the mechanism of hypertension following intracisternal kaolin injection in rats; leucocytic reaction and effect on lymphatic absorption, 1935, 113: 285.

Transient hypertension in rats following the extravascular administration of fluid, 1937, 118: 1.

GRIFFITHS, J. P. and E. T. WATERS. The utilization of fructose in the main-malian organism as shown by experiments on hepatectomized and eviscerated preparations, 1936, 117: 134.

GROLLMAN, A. A comparison of the triple extrapolation (Fick principle) and the acetylene (foreign gas principle) methods for the determination of the cardiac output of man, 1930, 93: 116.

Further studies on the cardiac output of normal man, 1930, 93: 653.

Physiological variations of the cardiac output of man. VII. The effect of high altitude on the cardiac output and its related functions: An account of experiments conducted on the summit of Pike's Peak, Colorado, 1930, 93: 19.

Physiological variations of the cardiac output of man. VIII. The constancy of the cardiac output from day to day throughout the year, 1930, 93:536.

Physiological variations in the cardiac output of man. IX. The effect of breathing carbon dioxide and of voluntary forced ventilation on the cardiac output of man. 1930, 94: 287.

Physiological variations of the cardiac output in man: X. The effect of variations in the environmental temperature on the pulse rate, blood pressure, oxygen consumption, arterio-venous oxygen difference, and cardiac output of normal individuals, 1930, 95: 263.

Physiological variations of the cardiac output in man: XI. The pulse rate, blood pressure, oxygen consumption, arterio-venous oxygen difference, and cardiac output of man during normal nocturnal sleep, 1930, 95: 274.

Physiological variations in the cardiac output of man: XII. The effect of the menstrual cycle on the cardiac output, pulse rate, blood pressure, and oxygen consumption of a normal woman, 1931, 96: 1.

Physiological variations in the cardiac output of man: XIII. The effect of mild muscular exercise on the cardiac output, 1931, 96: 8.

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GROLLMAN, A. and W. M. FIROR. Further studies on the adrenal cortical hormone, 1935, 113: 55.

Further studies on the hormone of the adrenal cortex, 1933, 105: 41.

Observations on the hormone of the adrenal cortex, 1932, 101:46.

The rôle of the hypophysis in experimental chronic adrenal insufficiency, 1935, 112: 310.

GROLLMAN, A., W. N. FIROR and E. GROLLMAN. The extraction of the adrenal cortical hormone from the interrenal body of fishes, 1934, 108: 237.

GROLLMAN, A. and E. HOWARD. The effects of adrenal cortex extract on the reproductive system, 1933, 105: 42.

GROLLMAN, A. See FIROR and GROLLMAN, 1933, 103: 686.
See FIROR and GROLLMAN, 1934, 109: 35.

See Howard and Grollman, 1934, 107: 480.

GROLLMAN, E. See Grollman, Firor and Grollman, 1934, 108: 237.

GRONDAHL, J. W. See Manville and Grondahl, 1936, 116: 626.

GROSS, G. D. See SMITH and GROSS, 1937, 118: 309.

GRUBBS, R. C. See HITCHCOCK and GRUBBS, 1937, 119: 336.

GRUBER, C. M. and A. DeNOTE. The effect of different sizes of balloons inserted in the gut and changes in pressure within them upon the activity of the small intestine, 1935, 111: 564.

GRUMBEIN, M. L. See Macht and Grumbein, 1937, 119: 369.

GRUNDFEST, H. Excitability of the single-fiber nerve-muscle complex, 1932, 101: 47.

Summation of two subliminal stimuli in single muscle fibers, 1933, 105: 42.

GRUNDFEST, H. and McK. CATTELL. Some effects of hydrostatic pressure on nerve action potentials, 1935, 113: 56.

GRUNDFEST, H. and H. S. GASSER. Irritability of mammalian nerve after excitation, 1936, 116: 67.

GRUNDFEST, H. See Gasser and Grundfest, 1936, 117: 113.

GUDERNATSCH, F. and O. HOFFMAN. A differentiation stimulus exerted by some amino acids during development, 1932, 101:47.

Amino acids as factors in growth and differentiation (initial experiments), 1931, 97: 527.

Further studies on amino acids in development. VI. The relative efficacy of single amino acids at different periods, 1935, 113: 57.

Further studies on amino acids in development. VII. The relative efficacy of amino acid mixtures at different periods, 1935, 113: 58.

Indications of an antagonism by certain substances to the differentiation factor in thyroxin, 1934, 109:45.

GUDERNATSCH, F. See HOFFMAN and GUDERNATSCH, 1933, 105: 54.

See Hoffman and Gudernatsch, 1934, 109: 55. See Hoffman and Gudernatsch, 1935, 113: 67.

GUERNSEY, M., H. WALD and F. H. SCOTT. The influence of gravity on the circulation, 1933, 105: 42.

GUILBERT, H. R. See Cole, Guilbert and Goss, 1932, 102: 227.

GUILD, R. See CANZANELLI, GUILD and RAPPORT, 1934, 110: 416.

See RAPPORT, CANZANELLI and GUILD, 1934, 109: 86.

GULICK, A. The development of temperature control in infant rats, 1937, 119: 322.

GULLIKSEN, D. P. Changes in the basal metabolic rate accompanying the conditioned state induced by morphine, 1931, 98: 25.

GUSTAVSON, R. G. See D'AMOUR and GUSTAVSON, 1936, 116: 34.
See Kunde, D'Amour, Carlson and Gustavson, 1930, 95: 630.
See Kunde, D'Amour, Gustavson and Carlson, 1931, 96: 677.

GUTMAN, A. B. See FLOOD, GUTMAN and GUTMAN, 1937, 120: 696.

GUTMAN, E. B. See FLOOD, GUTMAN and GUTMAN, 1937, 120: 696.

GUTMAN, I. See KATZ, GUTMAN and OCKO, 1936, 116: 302.

See Katz, Sigman, Gutman and Ocko, 1936, 116: 343.

See Ocko, Gutman, Sigman and Katz, 1935, 113: 103.

GUTTMAN, J. and S. E. BARRERA. Persistence of cochlear electrical disturbance on auditory stimulation in the presence of cochlear ganglion degeneration, 1934, 109: 704.

The electrical potentials of the cochlea and auditory nerve in relation to hearing, 1937, 120: 666.

GUTTMAN, S. A., R. G. HORTON and D. T. WILBER. Enhancement of muscle contraction after tetanus, 1937, 119: 463.

GUTTMAN, S. A. and D. T. WILBER. The effect of radiation on the excitability of smooth muscle, 1936, 115: 194.

GUTTMAN, S. A. See HORTON, WILBER and GUTTMAN, 1937, 119: 338.

H

HAFKESBRING, R. and R. ASHMAN. Pulse wave velocities in ninety subjects, 1932, 100: 89.

HAFKESBRING, R. and W. MacCALMONT. The effect of barbital derivatives on the electrocardiogram, 1937, 119: 322.

HAFKESBRING, R. See ASHMAN and HAFKESBRING, 1929, 91: 65.

See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, MacCalmont, Sharpe and Cortell, 1937, 119: 306.

HAGGARD, H. W. and L. A. GREENBERG. The respiratory quotient as a guide to mealtime intervals, 1934, 109: 46.

The respiratory quotient as an index of meal intervals, 1932, 101:48.

HAIG, C. See HECHT and HAIG, 1936, 116: 72. See HECHT, WALD and HAIG, 1932, 101: 52.

HALDI, J. Inhibition of lactic acid formation in brain and kidney tissue produced by intravenous injection of sodium monoiodoacetate, 1932, 101: 48, 469.

Lactic acid in blood and tissues following intravenous injection of sodium bicarbonate, 1933, 105: 43.

Lactic acid in blood and tissues following intravenous injection of sodium bicarbonate, 1933, **106**: 134.

The accumulation of lactic acid in excised brain, kidney, muscle and testicle, 1932. 99: 702.

The accumulation of lactic acid in excised liver tissue, 1932, 101: 236.

HALDI, J. and G. BACHMANN. Creatinuria induced by ingestion of glucose and fructose and by exercise, 1936, 115: 364.

The effect of exercise on the respiratory exchange and some urinary constituents following the ingestion of glucose and fructose, separately and in combination, 1935, 113: 58.

HALDI, J., G. BACHMANN, C. ENSOR and W. WYNN. Muscular efficiency as affected by taking breakfast and by the height of the respiratory quotient immediately before exercise, 1937, 119: 323.

HALDI, J. See BEAN and HALDI, 1932, 101: 6.

See BEAN and HALDI, 1932, 102: 463.

See BACHMANN and HALDI, 1935, 113: 3.

See Bachmann, Haldi, Wynn and Ensor, 1937, 119: 262.

See Bachmann, Haldi, Wynn and Ensor, 1937, 120: 579.

HALES, W. M., G. M. HASLERUD and D. J. INGLE. Time for development of incapacity to work in adrenalectomized rats, 1935, 112: 65.

HALES, W. M. See Heron, Hales and Ingle, 1934, 110: 357.

See Ingle, Hales and Haslerud, 1935, 113: 200. See Ingle, Hales and Haslerud, 1936, 114: 653.

HALL, E. M. A chick heart method of biological assay. I. Digitalis, 1932, 101: 48.

HALL, F. G. The ability of the common mackerel and certain other marine fishes to remove dissolved oxygen from sea water, 1930, 93: 417.

See KEYS, HALL and BARRON, 1936, 115: 292.

HALL, G. E. See Ettinger, Hall and Banting, 1936, 116: 44.

HALL, J. C. See Crisler, Booher, van Liere and Hall, 1933, 103: 68.

HALL, J. F., JR. and G. S. McCLURE. Insensible water loss in relation to water ingestion in man, 1936, 115: 670.

HALL, J. F. See SHERWOOD, SAVAGE and HALL, 1933, 105: 241.

HALL, S. R. Bio-assay of male hormone by gross weight of seminal vesicles and prostate gland from immature castrate rats, 1937, 119: 324.

HALL, V. E., J. FIELD, 2ND, M. SAHYUN, W. C. CUTTING AND M. L. TAINTER. Carbohydrate metabolism, respiration and circulation in animals with basal metabolism heightened by dinitrophenol, 1933, 106: 432.

HALL, V. E. See Martin, Field and Hall, 1930, 93: 672.
See Martin, Field, Hall and Field, 1931, 97: 545.
See Martin, Field and Hall, 1932, 102: 476, 481.

HALL, W. H. See BRITTON, HINSON and HALL, 1930, 93: 473, 637.

HALLARAN, W. R. See QUIGLEY and HALLARAN, 1931, 97: 552. See QUIGLEY and HALLARAN, 1932, 100: 102.

HALLOCK, P. See FAHR, DAVIS, KERKHOF, HALLOCK and GIERE, 1932, 101: 33, 376. HALPERN, S. R. and F. E. D'AMOUR. Studies on the gonad-hypophyseal complex

in estrin-injected rats, 1936, 115: 229.

HALPERT, B., W. J. GERMAN and E. B. HOPPER. Observations on the re-formation of cerebrospinal fluid and aqueous humor, 1933, 103: 351.

HALPERT, B. and M. T. HANKE. Some phases of liver and gall-bladder function, 1932, 100: 433.

HALPERT, B. and J. H. LEWIS. Experiments on the isolated whole gall bladder of the dog,1930, 93: 506.

HALPERT, B., P. A. O'CONNOR and W. R. THOMPSON. Rates of resorption in the gall bladder, 1935, 112: 383.

HALPERT, B., W. R. THOMPSON and F. L. MARTING. Rates of resorption in the gall bladder. Estimations based on experiments with methylene blue on rabbits, 1935, 111: 31.

HALPERT, B. See MILLS and HALPERT, 1933, 103: 265.
See REWBRIDGE, HANKE and HALPERT, 1930, 95: 511.

HALSTEAD, W., G. YACORZYNSKI and F. FEARING. Further evidence of cerebellar influence in the habituation of after-nystagmus in pigeons, 1937, 120: 350.

HAMILTON, J. B. Production of testicular descent in monkeys by male hormone substance, 1937, 119: 325.

Uterine temperature during estrus, pregnancy and other physiological changes in the unanesthetized rat, 1936, 116: 68.

HAMILTON, J. B., M. DRESBACH and R. S. HAMILTON. Cardiac changes during progressive hypothermia, 1937, 118: 71.

HAMILTON, J. E., J. S. LICHTY and W. R. PITTS. Cardiovascular response of healthy young men to postural variations at varied temperatures, 1932, 100: 383.

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See KELLER, NOBLE and HAMILTON, 1936, 117: 467.

HAMILTON, R. S. See Hamilton, Dresbach and Hamilton, 1937, 118: 71.

HAMILTON, W. F. Filling of the normal human heart in relation to the cardiopneumogram and abdominal plethysmogram, 1930, 91:712.

Some mechanisms involved in the regulation of the circulation, 1932, 102: 551. HAMILTON, W. F. and F. S. BRACKETT. Dynamic considerations on the relation

HAMILTON, W. F. and F. S. BRACKETT. Dynamic considerations on the relation between aortic and ventricular pressure curves, 1935, 112: 130.

HAMILTON, W. F., G. BREWER and I. BROTMAN. An improved model of the hypodermic manometer and some tracings illustrating physiological applications and damping with viscous fluids, 1934, 109: 47.

Pressure pulse contours in the intact animal. I. Analytical description of a new high-frequency hypodermic manometer with illustrative curves of simultaneous arterial and intracardiac pressures, 1934, 107: 427.

Some simplifications and improvements in the technique of optical recording, 1933, 105:44.

The effect of chronic experimental aortic insufficiency on certain circulatory characteristics, 1933, 105: 43.

HAMILTON, W. F., I. BROTMAN and G. BREWER. Changes in volume and velocity of blood flow in chronic experimental aortic regurgitation and the effect of certain drugs in this condition, 1934, 107: 414.

Circulatory responses to acetylchlorine in normal dogs and in dogs with experimental aortic regurgitation with a preliminary note on the pericardium, 1934, 109:47.

HAMILTON, W. F., J. W. MOORE and J. M. KINSMAN. Cardiac output, mean circulation time, total blood volume and heart-lung blood volume under physiological and pathological conditions, 1931, 97: 528.

HAMILTON, W. F., J. W. MOORE, J. M. KINSMAN and R. G. SPURLING. Blood flow and intrathoracic blood volume, as determined by the injection method and checked by direct measurement in perfusion experiments, 1930, 93: 654.

Studies on the circulation. IV. Further analysis of the injection method, and of changes in hemodynamics under physiological and pathological conditions, 1932, 99: 534.

HAMILTON, W. F. and A. B. MORGAN. Mechanism of postural changes in vital capacity in relation to cardiac dyspnea and the storage of blood in the lungs for emergencies, 1931, 97: 528.

Mechanism of the postural reduction in vital capacity in relation to orthopnea and storage of blood in the lungs, 1932, 99: 526.

HAMILTON, W. F. and J. H. ROMPF. Movements of the base of the ventricle and the relative constancy of the cardiac volume, 1932, 102: 559.

HAMILTON, W. F., M. C. SPRADIN and H. G. SAAM, JR. An inquiry into the basis of the acetylene method of determining the cardiac output, 1932, 100: 587.

HAMILTON, W. F. and R. A. WOODBURY. Some applications of a differential manometer, 1937, 119: 325.

HAMILTON, W. F., R. A. WOODBURY and P. DOW. A differential manometer and methods of measuring blood pressure curves, 1937, 119: 326.

HAMILTON, W. F., R. A. WOODBURY and H. T. HARPER. Simultaneous changes in human intrathoracic and arterial pressure during respiration, coughing and straining, 1936, 116: 69.

HAMILTON, W. F., R. A. WOODBURY and H. T. HARPER, JR. Optical tracings of human blood pressure, comparing the clinical and oscillographic criteria with the true blood pressure, 1935, 113: 59.

HAMILTON, W. F., R. A. WOODBURY and E. B. WOODS. The relation between systemic and pulmonary blood pressures in the fetus, 1937, 119: 206.

HAMILTON, W. F. See Brewer, Hamilton and Brotman, 1934, 107: 420, 436.

See Dow and Hamilton, 1936, 116: 36.

See Dow and Hamilton, 1937, 119: 297.

See FREEMAN and HAMILTON, 1932, 101: 686.

See Johnson, Hamilton, Katz and Weinstein, 1937, 119: 344.

See Johnson, Hamilton, Katz and Weinstein, 1937, 120: 624.

See Robinow, Woodbury and Hamilton, 1937, 119: 392.

See Vogt and Hamilton, 1935, 113: 135.

See Woodbury and Hamilton, 1937, 119: 663.

See Woodbury, Hamilton, Torpin and Temples, 1937, 119: 423.

See Woodbury, Hamilton and Woods, 1935, 113: 139.

HAMLETT, G. W. D. Positive Friedman tests in the pregnant rhesus monkey, Macaca mulatta, 1937, 118: 664.

HAMLIN, H. E. The energy cost of the "push-up" exercise, 1931, 97: 529.

Working mechanisms for the liquid and gaseous intake and output of the Jacobson's organ, 1929, 91: 201.

HAMMETT, D. W. See HAMMETT and HAMMETT, 1932, 101: 49.

HAMMETT, F. S. and D. W. HAMMETT. Influence of sulfhydryl and sulfoxide on aberrant disorganized growths in the regenerating chela of the Hermit crab, 1932, 101: 49.

HAMMOND, E. L. See Granit and Hammond, 1931, 98: 654.

HAMMOND, J. See ASDELL and HAMMOND, 1933, 103: 600.

HAMPEL, C. W. The effect of denervation on the sensitivity to adrenine of the smooth muscle in the nictitating membrane of the cat, 1935, 111: 611.

The effect of initial tension and load on the response of the nictitating membrane of the cat, 1934, 107:717.

See RING and HAMPEL, 1932, 102: 460.

See RING and HAMPEL, 1933, 104: 298.

See RING and HAMPEL, 1933, 105: 300, 306.

HAMRE, C. J. and C. D. MILLER. The spleen, hemoglobin and erythrocytes in nutritional anemia of the rat, 1935, 111: 578.

HANEY, H. F. The effect of stimulation of the cervical sympathetic trunk upon the energy metabolism of rabbits, 1932, 102: 249.

The effect of stimulation of the cervical sympathetic trunk upon the respiratory metabolism of rabbits, 1932, 101: 49.

The energy metabolism of pregnant rabbits, 1930, 93: 655.

HANEY, H. F. and M. C. BORMAN. The effect of destruction of various portions of the left ventricle upon the RS-T segment of the electrocardiogram, 1933, 105: 44.

HANEY, H. F., M. C. BORMAN and W. J. MEEK. The relation between the position of experimental myocardial lesions in the dog and the changes in the RS-T segment of the electrocardiogram, 1933, 106: 64.

HANEY, H. F. See HERRIN and HANEY, 1936, 116: 74. See POMMERENKE, HANEY and MEEK, 1930, 93: 249.

HANKE, M. T. See HALPERT and HANKE, 1932, 100: 433. See REWBRIDGE, HANKE and HALPERT, 1930, 95: 511.

HANNETT, F. I. See Ingram, Ranson and Hannett, 1931, 98: 687.

HANSMANN, G. H. See BOOHER and HANSMANN, 1936. 114: 429.

HANSEN, R. A. See SHILLING, HANSEN and HAWKINS, 1935, 110: 616.

HANSON, A. M. See ROWNTREE, CLARK and HANSON, 1934, 109: 90.

See ROWNTREE, CLARK, STEINBERG, EINHORN and HANSON, 1936, 116: 132, 133.

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HANSON, L. and E. DE SAVITSCH. Liver treatment in experimentally produced polycythemia, 1934, 109: 48.

HANSON, L. See FOGELBERG, BARNES and HANSON, 1933, 105: 34.

HANZAL, R. F. See Summerville, Hanzal and Goldblatt, 1932, 102: 1. See Quigley, Einsel, Bing and Hanzal, 1936, 116: 124.

HARDEMAN, D. R., JR. Studies in volume changes of the pancreas, 1930, 93: 463. HARDEN, W. C. See Macht and Harden, 1936, 116: 105.

HARDY, J. D. On the measurement of skin temperature and body radiation, 1934, 109: 48.

See Oppel and Hardy, 1936, 116: 116.

HARE, K. Degeneration of the supraoptic nucleus following hypophysectomy in the dog, 1937, 119: 326.

Postural reactions to electrical stimulation of the interior of the cerebellum in the cat and monkey, 1936, **116**: 69.

HARE, K. See FARR, HARE and PHILLIPS, 1937, 119: 305.

See Ranson, Magoun and Hare, 1936, 116: 126.

HARE, W. K. and A. D. KELLER. Unilateral overflexion of the limbs following experimental lesions in the pons and upper medulla, 1933, 105: 45.

HARE, W. K., H. W. MAGOUN and S. W. RANSON. Electrical stimulation of the interior of the cerebellum in the decerebrate cat, 1936, 117: 261.

HARE, W. K. See KELLER, D'AMOUR and HARE, 1934, 109: 63.

See KELLER and HARE, 1933, 105: 61.

See Keller, Hare and D'Amour, 1933, 105: 61.

See Magoun, Hare and Ranson, 1935, 112: 329.

HARGER, R. N. and A. L. GOSS. The so-called normal alcohol of the body, 1935, 112: 374.

HARLOR, D. M. See Collett, Wertenberger, Schott, Lawton, Harlor and Reed, 1935, 113: 29.

HARLOW, C. See SELYE, McKEOWN and HARLOW, 1935, 113: 119.

HARLOW, C. M. See THOMSON, HARLOW, PUGSLEY and SELYE, 1936, 116: 154.

HARMAN, M. T. See KRAMER, HARMAN and BRILL 1933, 106: 611.

HARMON, I. W., E. OGDEN and S. F. COOK. The reservoir function of the spleen in fowls, 1932, 100: 99.

HARMON, I. W. See Cook and Harmon, 1933, 105: 407.

HARMS, H. P., J. VAN PROHASKA and L. R. DRAGSTEDT. The relation of pancreatic juice to pancreatic diabetes, 1936, 116: 70.

The relation of pancreatic juice to pancreatic diabetes, 1936, 117: 160.

HARMS, H. P. See Dragstedt, Van Prohaska and Harms, 1936, 116: 36.

See Dragstedt, Van Prohaska and Harms, 1936, 117: 175.

See Dragstedt, Van Prohaska and Harms, 1937, 119: 298.

See Van Prohaska, Dragstedt and Harms, 1936, 117: 166.

See Van Prohaska, Harms and Dragstedt, 1936, 116: 122.

HARNE, O. G. A study of spontaneous activity in the excised uterine horns of the rat, by an improved method, 1931, 99: 227.

A study of the excised uterus of the rat, its volume displacement and irritability to pituitrin with reference to the oestrous cycle 1932, 100: 331.

HARNE, O. G. and E. E. PAINTER. A study of spontaneous activity in the excised uterus of the rat with particular reference to the rôle of the ovary and inherent characteristics of uterine muscle, 1933, 105: 566.

Contraction types in the excised rat uterus and their relation to intrauterine tension, 1934, 109: 48.

The concentrations of adrenalin and pituitrin required to affect uterine motility, when they are administered by different methods, 1936, 116:71.

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HARNE, O. G. See PAINTER and HARNE, 1934, 108: 33.

See Painter and Harne, 1936, 116: 117.

HARPER, H. T. See Hamilton, Woodbury and Harper, 1936, 116: 69.

HARPER, H. T., JR. See Hamilton, Woodbury and Harper, 1935. 113: 59.

HARPER, P. See Granit and Harper, 1930, 95: 211.

HARRIS, A. S. A study in reflexes: identification of the cutaneous afferent fibers which evoke ipsilateral extensor and flexor reflexes, 1935, 112: 231.

Quick and delayed reflex responses evoked from depressed mammalian nerve, 1937, 119: 327.

Reflexes evoked by stimulation of fibres of lowest threshold, 1934, 109: 49.

Specific reflex afferents in mammalian plantar nerves, 1937, 119: 326.

See Ingle and Harris, 1936, 114: 657.

See White, Monaghan and Harris, 1934, 109: 109.

See White, Rainey, Monaghan and Harris, 1934, 108: 449.

HARRIS, R. E. and D. J. INGLE. The influence of destruction of the adrenal medulla on emotional hyperglycemia in rats, 1937, 120: 420.

HARRISON, S. P. and E. C. MASON. A study of intravascular coagulation, 1936, 116: 71.

HARRISON, T. R., W. G. HARRISON, JR. and J. P. MARSH. Reflex stimulation of respiration from increase in venous pressure, 1932, 100: 417.

HARRISON, T. R. See Harrison, Calhoun and Harrison, 1932, 100: 68.
See Mason, Blalock and Harrison, 1937, 118: 667.

HARRISON, W. G., JR., J. A. CALHOUN and T. R. HARRISON. Afferent impulses as a cause of increased ventilation during muscular exercise, 1932, 100: 68

HARRISON, W. G., JR. See Harrison, Harrison and Marsh, 1932, 100: 417.

HARROW, B., I. M. CHAMELIN and A. MAZUR. "The fat metabolism hormone" and hyperglycemia, 1934, 109: 436.

HARROW, B. See Funk and Harrow, 1932, 101: 218.

See Funk, Harrow and Lejwa, 1930, 92: 440.

See Kemmerer, Elvehjem, Hart and Fargo, 1932, 102: 319.

See Kohler, Elvehjem and Hart, 1935, 113: 279. See Hove, Elvehjem and Hart, 1937, 119: 768.

HART, E. B. See LAMB, PHILLIPS, HART and BOHSTEDT, 1933, 106: 350.

See PHILLIPS, ENGLISH and HART, 1935, 113: 441.

See PHILLIPS, LAMB, HART and BOHSTEDT, 1933, 106: 356.

See TODD, ELVEHJEM and HART, 1934, 107: 146.

See Van Donk, Steenbock and Hart, 1933, 103: 468.

HART, G. H. and H. H. COLE. The source of oestrin in the pregnant mare, 1934, 109: 320.

HART, G. H. See COLE and HART, 1930, 93: 57.

See COLE and HART, 1930, 94: 597.

HARTLINE, H. K. Impulses in single optic nerve fibres of the vertebrate retina, 1935, 113: 59.

The discharge of impulses in the optic nerve fibers of the eye of Pecten irradians, 1937, 119: 328.

The discharge of impulses in the optic nerve in response to flashes of light of short duration, 1933, 105: 45.

The effect of dark adaptation on the discharge of impulses in single optic nerve fibers, 1932, 101: 50.

HARTLINE, H. K. and C. H. GRAHAM. The spectral sensitivity of single visual sense cells, 1934, 109: 49. HARTMAN, C. G., W. M. FIROR and E. M. K. GEILING. The anterior lobe and menstruation, 1930, 95: 662.

HARTMAN, C. G. See Firor and Hartman, 1936, 116: 49.
See Richter and Hartman, 1934, 108: 136.

HARTMAN, F. A. and K. A. BROWNELL. A further study of the hormone of the adrenal cortex, 1930, 93: 655.

The vital hormone of the adrenal cortex, 1931, 97: 530.

HARTMAN, F. A., K. A. BROWNELL and A. A. CROSBY. The relation of cortin to the maintenance of body temperature, 1931, 98: 674.

HARTMAN, F. A., K. A. BROWNELL and W. E. HARTMAN. A further study of the hormone of the adrenal cortex, 1930, 95: 670.

HARTMAN, F. A., K. A. BROWNELL and J. E. LOCKWOOD. Cortin as a general tissue hormone, 1932, 101: 50.

HARTMAN, F. A., L. LEWIS and G. TOBY. The effect of adrenal cortical extract on renal exerction, 1937, 119: 328.

HARTMAN, F. A., J. E. LOCKWOOD and K. A. BROWNELL. Further studies on the adrenal cortex, 1933, 105: 46.

HARTMAN, F. A., C. A. WINTER and K. A. BROWNELL. Water shift in adrenal insufficiency, 1934, 109: 50.

HARTMAN, F. A. See Liddell, Anderson, Kotyuka and Hartman, 1935, 113: 87. See Lockwood, Swan and Hartman, 1936, 117: 553.

HARTMAN, W. E. See HARTMAN, BROWNELL and HARTMAN, 1930, 95: 670.

HARTZEL, J. B. The effect of section of the vagus nerves on gastric acidity, 1929, 91: 161.

HARVEY, E. N. Stabilization of the fundamental rhythm of the alligator heart, 1931, 97: 530.

The effect of high frequency sound waves on heart muscle and other irritable tissues, 1929, 91: 284.

The microscope-centrifuge, 1932, 101: 51.

HARVEY, E. N. and F. H. JOHNSON. Osmotic and surface properties of bacteria, 1937, 119: 329.

HASLERUD, G. M. See HALES, HASLERUD and INGLE, 1935, 112: 65.

See Ingle, Hales and Haslerup, 1935, 113; 200.

See Ingle, Hales and Haslerud, 1936, 114: 653.

See Jacobsen, Taylor and Haslerud, 1936, 116: 85.

HASTINGS, A. B. and A. H. STEINHAUS. A new chart for the interpretation of acid-base changes and its application to exercise, 1931, 96: 538.

HASTINGS, A. B. See Davis, Da Costa and Hastings, 1934, 110: 187.

See Davis and Hastings, 1933, 105: 110.

See Davis and Hastings, 1934, 109: 683.

See Davis and Hastings, 1936, 114: 618.

See McLean, Barnes and Hastings, 1935, 113: 141.

See McLean, Bay and Hastings, 1933, 105: 72.

See Mullin, Lees and Hastings, 1935, 113: 100.

See Schlutz, Hastings and Morse, 1933, 104: 669.

See Schlutz, Hastings and Morse, 1935, 111: 622.

See Schlutz, Morse and Hastings, 1935, 113: 595.

HATERIUS, H. O. Partial sympathectomy and induction of pseudopregnancy, 1933, 103: 97.

Reduction of litter size and maintenance of pregnancy in the oophorectomized rat: evidence concerning the endocrine rôle of the placenta, 1936, 114: 399.

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mized 9. HATERIUS, H. O. and A. J. DERBYSHIRE, JR. Ovulation in the rabbit following upon stimulation of the hypothalamus, 1937, 119: 329.

HATERIUS, H. O. See HERREN and HATERIUS, 1931, 96: 214.
See HERREN and HATERIUS, 1932, 100: 533.

See Nelson, Pfiffner and Haterius, 1930, 91: 690.

HATHAWAY, H. R. See Seevers, Hathaway and Stormont, 1936, 116: 140.

HATHAWAY, M. L. See REED, HATHAWAY and STRUCK, 1935, 113: 108.

HAUGEN, C. See Talbert, Haugen, Carpenter and Bryant, 1933, 104: 441.

HAUB, J. G. See HITCHCOCK and HAUB, 1935, 113: 64.

HAUCK, H. M., H. STEENBOCK and H. T. PARSONS. Is the effect of fluorine on teeth produced through the parathyroid glands, 1933, 103: 480.

The effect of the level of calcium intake on the calcification of bones and teeth during fluorine toxicosis, 1933, 103: 489.

HAVERFIELD, W. T. See Barron, Curtis and Haverfield, 1935, 113: 8.
See Barron, Curtis and Haverfield, 1936, 116: 6.

HAWKINS, J. A. See SHILLING, HANSEN and HAWKINS, 1935, 110: 616.

HAWKINS, W. B., K. SRIBHISHAJ, F. S. ROBSCHEIT-ROBBINS and G. H. WHIPPLE. II. Bile pigment and hemoglobin interrelation in anemic dogs, 1931, 96: 463.

HAWKINS, W. B. See SRIBHISHAJ, HAWKINS and WHIPPLE, 1931, 96: 449.

HAWLEY, E. E. Studies on the possibility of gluconeogenesis from fat. I. Response of the phloridzinized dog to insulin, 1932, 101: 185.

HAWLEY, E. E., C. W. JOHNSON and J. R. MURLIN. The effects of high fat diets on respiratory metabolism and ketosis, 1933, 105: 46.

The respiratory quotient on high fat diets, 1930, 93: 656.

HAWLEY, E. E. and J. R. MURLIN. Studies on the possibility of gluconcogenesis from fat, 1931, 97: 531.

Studies on the possibility of gluconeogenesis from fat. III. The respiratory metabolism of the pig on a high fat diet, 1932, 101:51.

HAYMAN, J. M., JR. The excretion of inorganic sulphates in man, 1932, 101: 51.
See Schmidt and Hayman, 1929, 91: 157.

HAYMOND, H. E. See Dragstedt and Haymond, 1932, 101: 29.
See Huggins, Haymond and McCarroll, 1934, 108: 192.
See Huggins, McCarroll and Haymond, 1934, 109: 56.

HAYNES, F. See Turner, Newton and Haynes, 1930, 93: 693.
HAYNES, F. W. Factors which influence the flow and protein content of subcutaneous lymph in the dog. I. Hemorrhage and hyperemia, 1932, 101: 223.

Factors which influence the flow and protein content of subcutaneous lymph in the dog. II. The effect of certain substances which alter the capillary circulation, 1932, 101:612.

Further observations on the rapidity of passage of substances from blood to lymph in the dog, 1932, 101: 232.

HAYNES, F. W. and M. E. FIELD. The cell content of dog lymph, 1931, 97: 52. HAYNES, F. W. See Himwich and Haynes, 1931, 96: 640.

See Himwich, Haynes and Fazikas, 1932, 101: 711. See Turner, Newton and Haynes, 1930, 94: 507.

HAYS, H. W. See PARKINS, HAYS and SWINGLE, 1936, 117: 13.

See Swingle, Parkins, Taylor and Hays, 1936, 116: 438.

See Swingle, Parkins, Taylor and Hays, 1937, 119: 557, 684. See Swingle, Parkins, Taylor, Hays and Morrell, 1937, 119: 675.

HAYWOOD, C. The permeability of the frog liver to certain lipoid-insoluble substances, 1936, 116: 71. HECHT, S. and C. HAIG. The effect of light adaptation on dark adaptation, 1936, 116: 72.

HECHT, S., J. C. PESKIN and M. PATT. Visual intensity discrimination in different parts of the spectrum, 1937, 119: 330.

HECHT, S., G. WALD and C. HAIG. The dark adaptation of different retinal areas, 1932, 101: 52.

HECKEL, G. P. and W. M. ALLEN. Prolongation of pregnancy in the rabbit by injection of progesterone, 1937, 119: 330.

The effect of oestrin and progestin on reaction of the rabbit's uterus to pituitrin in vitro, 1936, 116:73.

HEGNAUER, A. H. Injury potential, oxygen consumption and irritability in frog muscle as affected by potassium, 1933, 105: 47.

Lactic acid accumulation in sugar non-irritability, 1932, 101: 52.

Lactic acid metabolism of muscles made non-irritable by sugar solutions, 1934, 107: 667.

HEGNAUER, A. H. and **E. J. ROBINSON.** Cation permeability of erythrocytes in experimental adrenal insufficiency and in normal animals after plasma sodium depletion, 1936, **116**: 73.

HEGNAUER, A. H. See FENN, COBB, HEGNAUER and MARSH, 1934, 110: 74.

HEIDGEN, M. F. and R. D. BARNARD. The maintenance of iris sphineter tone in the rat, 1931, 98: 276.

HEIM, J. W. On the chemical composition of lymph from subcutaneous vessels, 1933, 103: 553.

HEIM, J. W. and B. N. BERG. The sugar in blood and subcutaneous lymph following insulin administration, 1933, 105: 674.

HEIM, J. W., M. E. FIELD and C. K. DRINKER. On the state of sugar in subcutaneous lymph, 1933, 105: 47.

HEIM, J. W. and O. C. LEIGH. The carbon dioxide content and combining power and pH of cervical lymph, 1935, 112: 699.

HEIM, J. W., R. S. THOMSON and F. C. BARTTER. Lymph sugar, 1935, 113: 548. HEIM, J. W. See Drinker, Field, Heim and Leigh, 1934, 109: 572.

See Field, Leigh, Heim and Drinker, 1934, 110: 174.

HEIMAN, J. D. See MIRSKY, HEIMAN and BROHKAHN, 1937, 118: 290.
See MIRSKY, HEIMAN and SWADESH, 1937, 119: 376.

See Mirsky, Heiman and Swadesh, 1937, 119: 376. See Mirsky, Heiman and Swadesh, 1937, 120: 681.

HEINBECKER, P. Analysis of potential of Limulus medial cardiac nerve, 1931, 97: 531.

Further studies on the heart and median cardiac nerve of Limulus, 1932, 101: 53. Studies on the sensitivity of smooth musculature to exogenous epinephrine, 1937, 120: 401.

The effect of fibers of different types in the vagus and sympathetic nerves on the heart, 1930, 93: 656.

The effect of fibers of specific types in the vagus and sympathetic nerves on the sinus and atrium of the turtle and frog heart, 1931, 98: 220.

The functional analysis of a sympathetic ganglion of the turtle by the cathode ray oscillograph, 1930, 93: 384.

The heart and median cardiac nerve of Limulus polyphemus, 1933, 103: 104.

The potential analysis of a pacemaker mechanism in Limulus polyphemus, 1936, 117: 686.

The potential analysis of the turtle and cat sympathetic and vagus nerve trunks, 1930, 93: 284.

HEINBECKER, P. and G. H. BISHOP. Effect of anoxemia, carbon dioxide and lactic acid on electrical phenomena of myelinated and unmyelinated fibres of the autonomic nervous system, 1931, 96: 613.

Studies on the extrinsic and intrinsic nerve mechanisms of the heart, 1935, 114: 212.

HEINBECKER, P. and J. O'LEARY. The mammalian vagus nerve—a functional and histological study, 1933, 106: 623.

HEINBECKER, P., J. O'LEARY and G. H. BISHOP. Nature and source of fibers contributing to the saphenous nerve of the cat, 1933, 104: 23.

HEINLE, R. W. and K. R. PHELPS. The effect of short radio waves and heat on the elasticity of the aorta, 1933, 104: 347.

The effect of short radio waves on perfused cats' hearts, 1933, 104: 349.

HEINBECKER, P. See BISHOP and HEINBECKER, 1930, 94: 170.

See Bishop and Heinbecker, 1932, 100: 519.

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See BISHOP and HEINBECKER, 1935, 114: 179.

See BISHOP, HEINBECKER and O'LEARY, 1933, 106: 647.

See BISHOP, HEINBECKER and O'LEARY, 1934, 109: 409.

See Douglas, Davenport, Heinbecker and Bishop, 1934, 110: 165.

See O'LEARY, HEINBECKER and BISHOP, 1934, 109: 274.

See O'LEARY, HEINBECKER and BISHOP, 1935, 110: 636.

See WHITE and HEINBECKER, 1937, 118: 276.

HEKTOEN, L. See WELKER, GILMAN and HEKTOEN, 1933, 106: 475.

HELLBAUM, A. See FEVOLD, HISAW, HELLBAUM and HERTZ, 1933, 104: 710.

HELLBAUM, A. A. The fractionation, and a study of the intercation, of the gonadotropic factors in pregnant mares' blood, 1937, 119: 331.

HELLEBRANDT, F. A. Studies on albuminuria following exercise. I. Its incidence in women and its relationship to the negative phase in pulse pressure, 1932, 101: 357.

The effect of exercise on the digestive work of the stomach, 1933, 105: 48.

The influence of exercise on water diuresis, 1935, 113: 60.

The relation between the motor and secretory functions of the human fasting stomach, 1935, 112: 162.

HELLEBRANDT, F. A., H. D. BAERNSTEIN and S. L. HOOPES. Studies on the influence of exercise on the digestive work of the stomach. IV. Its relation to the physicochemical changes in the blood, 1934, 107: 370.

HELLEBRANDT, F. A., G. BRAUN and R. H. TEPPER. The relation of the center of gravity to the base of support in stance, 1937, 119: 331.

HELLEBRANDT, F. A. and E. BROGDON. Studies on albuminuria following exercise, 1932, 101: 53.

HELLEBRANDT, F. A., E. BROGDON and S. L. HOOPES. Gastric acidity as influenced by exercise, psychic disturbance and anoxemia, 1934, 109: 50.

The disappearance of digestive inhibition with the repetition of exercise, 1935, 112:442.

The effect of acute anoxemia on hunger, digestive contractions and the secretion of hydrochloric acid in man, 1935, 112: 451.

HELLEBRANDT, F. A., E. BROGDON and L. E. A. KELSO. Studies on albuminuria following exercise. II. Its relationship to the speed of doing work, 1932, 101: 365.

HELLEBRANDT, F. A. and L. L. DIMMITT. Studies on the influence of exercise on the digestive work of the stomach. III. Its effect on the relation between secretory and motor function, 1934, 107: 364. HELLEBRANDT, F. A. and S. L. HOOPES. Studies on the influence of exercise on the digestive work of the stomach. I. Its effect on the secretory cycle, 1934, 107: 348.

HELLEBRANDT, F. A. and M. M. MILES. The effect of muscular work and competition on gastric acidity, 1932, 102: 258.

HELLEBRANDT, F. A. and R. H. TEPPER. Studies on the influence of exercise on the digestive work of the stomach. II. Its effect on emptying time, 1934, 107: 355.

HELLEBRANDT, F. A., R. TEPPER and R. CATHERWOOD. Spontaneous variations in human gastric acidity, 1936, 116: 73.

HELLEBRANDT, F. A., C. E. WALTERS and M. L. MILLER. The post-exercise suppression of kidney function in man, 1936, 116: 168.

HELLEBRANDT, F. A. See Brogdon and Hellebrandt, 1933, 105: 12.

HELLER, R. C. See Soskin, Mirsky, Zimmerman and Heller, 1936, 114: 648. See Soskin, Mirsky, Zimmerman and Heller, 1936, 116: 148.

HELLERMAN, L. See GEMMILL and HELLERMAN, 1937, 119: 317. See GEMMILL and HELLERMAN, 1937, 120: 522.

HELLMAN, L. M. See GEMMILL, OVERSTREET and HELLMAN, 1933, 104: 443. See GEMMILL, OVERSTREET and HELLMAN, 1933, 106: 36.

HELMER, O. M. The relation of the secretion of mucus to the acidity of the gastric juice, 1934, 110: 28.

HEMINGWAY, A. An amplified ballistic method for the measurement of the e.m.f. of the glass electrode, 1934, 109: 51.

A potentiometer for the measurement of the e.m.f. of the hydrogen, quinhydrone and glass electrodes, 1934, 109: 51.

The change of the electrical resistance of the human body with frequency and its significance in the quantitative measurement of the thermal dose in diathermy, 1933, 105: 48.

HEMINGWAY, A. and H. G. BARBOUR. A study of panting in normal unanesthetized dogs heated by diathermy, 1937, 119: 332.

HEMINGWAY, A. and F. BERNHART. A study of the plasma concentration of the dye Wasser Blau under various conditions which alter plasma volume, 1935, 113: 61.

HEMINGWAY, A. and **D. A. COLLINS.** High and low frequency electrical resistance changes in dying voluntary muscle of rabbits, 1932, 99: 338.

HEMINGWAY, A., D. A. COLLINS and F. BERNHART. A comparison of three methods of measuring plasma dilution after intravenous saline injection into normal anesthetized and functionally eviscerated dogs, 1936, 117: 102.

HEMINGWAY, A. and E. M. GREISHEIMER. Chronaxie and blood sugar, 1932, 101: 54.

HEMINGWAY, A. and J. F. McCLENDON. The high frequency resistance of human tissue, 1932, 102: 56.

HEMINGWAY, A., F. H. SCOTT and H. N. WRIGHT. The kinetics of the elimination of the dye water blue from dog plasma after intravenous injection, 1935, 112: 56.

HEMINGWAY, A. See McClendon and Hemingway, 1930, 94: 77.

HENDERSON, V. E. and E. H. CRAIGIE. On the respiratory centre, 1936, 115: 520.
HENDERSON, V. E. and M. H. ROEPKE. On the mechanism of erection, 1933, 106: 441.

HENDERSON, V. E. and T. A. SWEET. On the respiratory centre, 1929, 91: 94.
HENDERSON, Y. and L. A. GREENBERG. Acidosis: acid intoxication, or acarbia, 1934, 107: 37.

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Asphyxial hyperpnea and the sinus caroticus, 1934, 109: 51. Hemoglobin and the alkali of the blood, 1937, 119: 332.

HENDERSON, Y. and W. MOBITZ. The constant rate of absorption of ethyl iodide vapor and its significance as a basis for measuring the circulation, 1930, 92: 707

HENDERSON, Y., A. W. OUGHTERSON, L. A. GREENBERG and C. P. SEARLE. Air movement as a stimulus to the skin, the reflex effects upon muscle tonus, and indirectly upon the circulation of the blood; also the effects of therapeutic baths, 1936, 114: 269.

Muscle tonus, intramuscular pressure and the venopressor mechanism, 1936,

114: 261.

HENDERSON, Y. and E. M. RADLOFF. The chemical control of breathing, as shown in the acid base balance of the blood, under progressive decrease of oxygen, 1932, 101: 647.

Two stages in the effects of decreasing oxygen, 1932, 101:54.

HENDERSON, Y., E. M. RADLOFF and L. A. GREENBERG. Anoxemia, asphyxia and acidosis, 1933, 105: 49.

HENDERSON, Y. See GREENBERG and HENDERSON, 1936, 116: 65.

HENDRICKS, W. A. The relation of vitamin B requirement to metabolism, 1933, 105: 678.

See Fritz, Hendricks and Titus, 1936, 115: 281.

HENDRIX, J. P. See Larrabee and Hendrix, 1937, 119: 358.

See Richards, Walker, Hudson and Hendrix, 1934, 109: 87.

See Westfall and Hendrix, 1936, 116: 160. HENRICH, L. C. See Wilhelmj, Henrich and Hill, 1934, 110: 251.

See Wilhelmj, Henrich and Hill, 1935, 111: 293.

See Wilhelmi, Henrich, Neigus and Hill, 1934, 108: 197.

See WILHELMJ, HENRICH, NEIGUS and HILL, 1934, 109: 112.

See Wilhelmi, Henrich, Neigus and Hill, 1935, 112: 15. See Wilhelmi, Henrich, Neigus and Hill, 1935, 113: 137

HENSHAW, P. S. The different physiological effectiveness of 165 KV and 700 KV x-rays and gamma rays, 1932, 101: 54.

HERMAN, R. C. See Sapirstein, Herman and Wallace, 1937, 119: 549.

HERON, W. T., W. M. HALES and D. J. INGLE. Capacity of skeletal muscle in rats to maintain work output, 1934, 110: 357.

HERREN, R. Y. and H. R. FOSSLER. Achilles and crossed flexion reflex time in the intact rat, 1931, 97: 282.

HERREN, R. Y. and H. O. HATERIUS. On the mechanism of certain ovarian hormonal influences on the central nervous system, 1932, 100: 533.

The relation of ovarian hormones to electromyo graphically determined Achilles reflex time, 1931, 96: 214.

HERREN, R. Y. and D. B. LINDSLEY. Central and peripheral latencies in some tendon reflexes of the rat, 1931, 99: 167.

HERREN, R. Y. See Travis and Herren, 1930, 93: 693.
 HERRICK, C. A. See EMERY and HERRICK, 1929, 91: 143.

HERRICK, J. F., E. J. BALDES and F. P. SEDGWICK. Experimental analysis of the thermostromuhr for small flows, 1937, 119: 333.

HERRICK, J. F., H. E. ESSEX and E. J. BALDES. Observations on the flow of blood in the femoral artery of the dog eight to thirty-four months after lumbar sympathectomy, 1933, 103: 592.

Observations on the flow of blood of the kidney, 1932, 99: 696.

HERRICK, J. F., H. E. ESSEX and E. J. BALDES.

The effect of lumbar sympathectomy on the flow of blood in the femoral artery of the dog, 1932, 101: 213.

HERRICK, J. F., H. E. ESSEX, E. J. BALDES and F. C. MANN. Studies on the blood flow of the kidney, 1936, 116: 74.

The thermo-stromuhr method of measuring blood flow, 1935, 113: 61.

HERRICK, J. F., H. E. ESSEX, F. C. MANN and E. J. BALDES. The effect of digestion on the blood flow in certain blood vessels of the dog, 1934, 108: 621.

The effect of feeding desiccated thyroid gland on the flow of blood in the femoral artery of the dog, 1933, 105: 434.

The effect of the digestion of food on the blood flow from the liver of the dog, 1934, 109: 52.

HERRICK, J. F. and C. SHEARD. Changes in surface and rectal temperatures in man produced by the ingestion of food subsequent to twenty-four hour fast, 1935. 113: 62

HERRICK, J. F. See BALDES and HERRICK, 1937, 119: 263.

See Baldes, Herrick and Essex, 1932, 101: 3.

See Essex, Herrick, Baldes and Mann, 1935, 113: 39.

See Essex, Herrick, Baldes and Mann, 1936, 116: 43.

See Essex, Herrick, Baldes and Mann, 1936, 117: 271. See Essex, Herrick, Baldes and Mann, 1937, 119: 303.

See Essex, Herrick, Mann and Baldes, 1933, 105: 31.

See Essex, Herrick, Mann and Baldes, 1934, 109: 33.

See Geiling, Herrick and Essex, 1934, 109: 37.

See Soskin, Essex, Herrick and Mann, 1937, 118: 328.

See Soskin, Essex, Herrick and Mann, 1937, 119: 407. HERRIN, R. C. Effect of the sympathetics on glycogen content of muscle, 1930, 93: 657.

Secretion of ammonia by the intestine, 1935, 113: 62.

The effect of atropine and pilocarpine upon the emptying time of the human stomach, 1936, 115: 104.

HERRIN, R. C. and H. F. HANEY. Influence of sympathetic nerves upon the effect of pituitary extracts on blood sugar in dogs, 1936, 116: 74.

HERRIN, R. C., R. JOHNSON and K. SIEBECKER. The influence of diet upon urea clearance, 1937, 119: 334.

HERRIN, R. C. and W. J. MEEK. Further studies on intestinal obstruction, 1932,

Influence of the sympathetics on muscle glycogen, 1931, 97: 57.

Studies on intestinal obstruction, 1931, 97: 532.

HERRIN, R. C., W. J. MEEK and T. J. MATHEWS. Some physiological responses following distention of isolated intestinal loops, 1933, 105: 49.

HERRIN, R. C., A. RABIN and E. A. BACHHUBER. The effect of atropine and pilocarpine upon gastric emptying in normal and denervated dogs, 1936, 115: 113.

HERRIN, R. C., A. RABIN and R. N. FEINSTEIN. The influence of diet upon urea clearance in dogs, 1937, 119: 87.

HERRIN, R. C. See LALICH, MEEK and HERRIN, 1935, 113: 84.

See Lalich, Meek and Herrin, 1936, 115: 410.

See MEEK and HERRIN, 1934, 109: 221.

HERRINGTON, L. P., C.-E. A. WINSLOW and A. P. GAGGE. The relative influence of radiation and convection upon vasomotor temperature regulation, 1937, 120: 133.

HERRINGTON, L. P. See Winslow, Herrington and Gagge, 1936, 116: 641, 669.
See Winslow, Herrington and Gagge, 1937, 120: 1, 288.

HERSHEY, J. M. Substitution of lecithin for raw pancreas in the diet of the depancreatized dog, 1930, 93: 657.

HERSHEY, J. M. and S. SOSKIN. Substitution of "lecithin" for raw pancreas in the diet of the depancreatized dog, 1931, 98: 74.

HERSHEY, J. M. See Best, Hershey and Huntsman, 1932, 101: 7.

HERTZ, R. and F. L. HISAW. Effects of follicle-stimulating and luteinizing pituitary extracts on the ovaries of the infantile and juvenile rabbit, 1934, 108: 1.

HERTZ, R. See Dempsey, Hertz and Young, 1936, 116: 201. See Fevold, Hisaw, Hellbaum and Hertz, 1933, 104: 710.

See MEYER and HERTZ, 1937, 120: 232.

HERTZMAN, A. B. The relation of oxidation-reduction potentials to the regulation of respiration, 1932, 101: 56.

HERTZMAN, A. B. and F. E. FRANKE. Reactions of blood-vessels of the brainstem and spinal cord and their relation to circulatory and respiratory regulation, 1934, 109: 52.

Studies on the pial vessels of the rabbit, 1935, 113: 63.

HERTZMAN, A. B., L. D. SEAGER and F. E. FRANKE. Transmission of pressure within the cerebrospinal system, 1933, 105: 50.

HERTZMAN, A. B. and C. R. SPEALMAN. Observations on the finger volume pulse recorded photoelectrically, 1937, 119: 334.

HERTZMAN, A. B. See Spealman and Hertzman, 1937, 119: 408.
See Walters, Delvecchio and Hertzman, 1937, 119: 418.

HERVEY, J. P. See Bronk, Pumphrey and Hervey, 1935, 113: 17.

HESS, A. F. and S. N. BLACKBERG. An experimental study of "the constitutional factor" in the etiology of rickets, 1932, 102: 8.

HESSELBERG, C. and L. LOEB. The retrogression of the lactating mammary gland in the guinea pig, 1937, 118: 528.

HESSER, F. H. See Langworthy and Hesser, 1936, 115: 685, 694.
See Langworthy, Lewis, Dees and Hesser, 1936, 116: 95.

HETHERINGTON, A. See Magoun, Ranson and Hetherington, 1937, 119: 615.

HETHERINGTON, D. C. See Kennon, Shipp and Hetherington, 1937, 118: 690.

HETTIG, R. A. See BOURNS, NASSET and HETTIG, 1936, 116: 563.

HETTWER, J. P. Relation of threshold of excitability of nerve to carbon dioxide tension, 1937, 119: 335.

See Eyster, Krasno and Hettwer, 1937, 120: 173. See Krasno, Eyster and Hettwer, 1937, 119: 357.

HEYMANS, C., J. J. BOUCKAERT, S. FARBER and F. Y. HSU. Spinal vasomotor reflexes associated with variations in blood pressure, 1936, 117: 619.

HICKMAN, T. A. and E. B. POWERS. The physiology of respiration of fishes in relation to the environment. VI. The oxygen and carbon dioxide dissociation curves of whole blood, 1932, 101: 56.

HICKS, E. V. See Eyster and Hicks, 1932, 101: 33.

See Eyster and Hicks, 1933, 104: 358.

HIGGINS, C. B. and J. F. SAMMET. The bone-forming properties of the gall-bladder epithelium, 1933, 105: 56.

HIGGINS, G. M., J. BERKSON and E. FLOCK. The diurnal cycle in the liver. I. Periodicity of the cycle, with analysis of chemical constituents involved, 1932, 102: 673.

The diurnal cycle in the liver of the white rat. II. Food, a factor in its determination, 1933, 105: 177.

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HIGGINS, G. M., K. DEISSLER and F. C. MANN. Tonus rhythm in the isolated gall bladder and the effect of certain drugs, 1935, 112: 461.

HIGGINS, G. M., W. I. FOSTER and C. SHEARD. Further investigations on the effects of radiant energy on the development of the parathyroid glands of chicks, 1930, 94: 91.

HIGGINS, G. M. See Deissler and Higgins, 1935, 112: 430.

See Goodwin and Higgins, 1934, 108: 567.

See Sheard, Higgins and Foster, 1930, 93: 686.

See Sheard, Higgins and Foster, 1930, 94: 84.

See STUART and HIGGINS, 1935, 111: 590.

HIGGINS, H. L. Factors governing the excretion of nitrogen and fat by the bowel, 1932, 101: 56.

HIGGINS, H. L. and A. COURTNEY. Ketogenic diets; the means of eliminating acids by the human kidneys, 1934, 109: 53.

HIGGINS, J. A. See McGuigan and Higgins, 1935, 114: 207.

HIGHSTONE, W. H. See Maison, Highstone, Mayka, Burgert and Murray, 1933, 105: 69.

See Quigley, Highstone and Ivy, 1934, 108: 15k.

HILDING, A. The physiology of drainage of nasal mucus. III. Experimental work on the accessory sinuses, 1932, 100: 664.

HILL, E. See Long, Hill and Bischoff, 1932, 102: 402.

HILL, F. C. The formed elements of the blood, coagulation time, peptone leukopenia after section of the nerves to the liver, 1931, 98: 610.

See Wilhelms, Finegan and Hill, 1937, 119: 421.

See Wilhelms, Henrich and Hill, 1934, 110: 251.

See Wilhelmj, Henrich and Hill, 1935, 111: 293.

See Wilhelmj, Henrich, Neigus and Hill, 1934, 108: 197.

See Wilhelm, Henrich, Neigus and Hill, 1934, 109: 112.

See Wilhelmj, Henrich, Neigus and Hill, 1935, 112: 15.

See WILHELMJ, HENRICH, NEIGUS and HILL, 1935, 113: 137.

See Wilhelm, Neigus and Hill, 1933, 106: 381.

See WILHELMJ, NEIGUS and HILL, 1934, 107: 490.

See WILHELMJ, McCarthy and Hill, 1936, 117: 533.

See Wilhelmj, McCarthy and Hill, 1937, 118: 766.

See WILHELMJ, McCARTHY and HILL, 1937, 120: 619.

See Wilhelmj, McCarthy, O'Brien and Hill, 1937, 118: 505.

See Wilhelmj, O'Brien and Hill, 1935, 113: 138.

See Wilhelmj, O'Brien and Hill, 1936, 115: 5, 429.

See WILHELMJ, O'BRIEN and HILL, 1936, 116: 163, 685.

See Wilhelmj, O'Brien, McCarthy and Hill, 1936, 117: 79.

HILLENBRAND, C. J. and T. E. BOYD. Studies on the mechanism of reflex acceleration of respiration through afferent fibers in the vagus nerve, 1936, 116: 75.

Reflex respiratory effects from intermittent stimulation of the vagus and superior laryngeal nerves, 1936, 116: 380.

HILLENBRAND, C. J. See BOYD and HILLENBRAND, 1937, 119: 274.

HILLER, A. See RHOADS, ALVING, HILLER and VAN SLYKE, 1934, 109: 329.

See Rhoads, Van Slyke, Hiller and Alving, 1934, 110: 392.

See Van Slyke, Hiller and Miller, 1935, 113: 611, 629.

See Van Slyke, Rhoads, Hiller and Alving, 1934, 109: 336.

See Van Slyke, Rhoads, Hiller and Alving, 1934, 110: 387.

HILLS, M. J. See Morgan, Garrison and Hills, 1933, 105: 608.

HILLYARD, L. V. The effect of denervation of the liver on secretion of bile, 1931, 98: 612.

HILPERT, F. M. See BURGE, WICKWIRE, NEILD and HILPERT, 1937, 119: 283.

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HIMWICH, H. E. and M. A. ADAMS. Studies in glandular metabolism. I. The source of the lactic acid produced on incubation of the testicle and the submaxillary gland, 1929, 91: 172.

Studies in glandular metabolism. II. The carbohydrates of resting and secreting submaxillary glands, 1930, 93: 568.

HIMWICH, H. E., W. H. CHAMBERS, A. L. HUNTER and M. A. SPIERS. Changes in blood fat produced by fasting, phlorhizin and pancreatectomy, 1932, 99:

HIMWICH, H. E. and J. F. FAZEKAS. A mechanism of dehydration in diabetes, 1936, 116: 75.

The effect of hypoglycemia on the metabolism of the brain, 1937, 119: 335.

HIMWICH, H. E. and J. F. FAZIKAS. Effect of nicotine on oxidations in the brain, 1935, 113: 63.

HIMWICH, H. E., J. F. FAZIKAS, S. B. BARKER and M. H. HURLBURT. The metabolism of tissues excised from adrenalectomized rats, 1934, 110: 348.

HIMWICH, H. E., J. F. FAZIKAS, L. H. NAHUM, D. DUBOIS, L. GREENBURG and A. GILMAN. Diabetic hyperpyrexia, 1934, 110: 19.

HIMWICH, H. E. and J. F. FULTON. The effect of emotional stress on blood fat, 1931, 97: 533.

HIMWICH, H. E. and W. GOLDFARB. The ketogenic-antiketogenic ratio, 1933, 105: 50.

HIMWICH, H. E., W. GOLDFARB and G. R. COWGILL. Studies in the physiology of vitamins. XVII. The effect of thyroid administration upon the anorexia characteristic of lack of undifferentiated vitamin B, 1932, 99: 689.

HIMWICH, H. E., W. GOLDFARB and J. F. FAZIKAS. The carbohydrate metabolism of the heart during panereatic diabetes, 1936, 114: 273.

HIMWICH, H. E., G. S. GOLDMAN and M. Y. KROSNICK. Studies on subcutaneous absorption, 1932, 102: 365.

HIMWICH, H. E., W. GOLDFARB and L. H. NAHUM. Changes of the carbohydrate metabolism of the heart following coronary occlusion, 1934, 109: 403.

HIMWICH, H. E., W. GOLDFARB, N. RAKIETEN, L. H. NAHUM and D. DUBOIS.

The respiratory quotient of muscle of depancreatized dogs, 1934, 110: 352.

HIMWICH, H. E. and F. W. HAYNES. Effects of posterior pituitary extracts on basal metabolism, 1931, 96: 640.

HIMWICH, H. E., F. W. HAYNES and J. F. FAZIKAS. Effect of posterior pituitary extracts on the constituents of the blood, 1932, 101: 711.

HIMWICH, H. E. and A. D. KELLER. Effect of stimulation of hypothalamus on blood glucose, 1930, 93: 658.

HIMWICH, H. E. and L. H. NAHUM. The respiratory quotient of the brain, 1932, 101: 446.

HIMWICH, H. E., L. H. NAHUM, N. RAKIETEN, J. F. FAZIKAS and D. DUBOIS. Effects of alcohol on metabolism, 1932, 101: 57.

HIMWICH, H. E. and M. A. SPIERS. The effects of adrenalin, ephedrine, and insulin on the blood fat, 1931, 97: 648.

HIMWICH, H. E. See BARKER, FAZIKAS and HIMWICH, 1934, 110: 153.

See Barker, Fazikas and Himwich, 1936, 115: 415.

See Brockett, Spiers and Himwich, 1934, 110: 342.

See Fazekas, Campbell and Himwich, 1937, 118: 297.

See FAZEKAS and HIMWICH, 1936, 116: 46.

HIMWICH, H. E.

See FAZEKAS and HIMWICH, 1937, 119: 306.

See GOLDFARB, BARKER and HIMWICH, 1934, 109: 41.

See GOLDFARB, FAZEKAS and HIMWICH, 1936, 117: 631.

See GOLDFARB and HIMWICH, 1935, 113: 51.

See LOEBEL, HIMWICH and BARR, 1930, 93: 667.

HINES, H. M. and G. C. KNOWLTON. Changes in the skeletal muscle of the rat following denervation, 1933, 104: 379.

Changes in the skeletal muscle of the rat following denervation, 1933, 105: 51.

Electrolyte and water changes in muscle during atrophy, 1937, 120: 719.

The influence of fasting and environmental temperature upon the atrophy of denervated skeletal muscle, 1934, 110: 8.

The rôle of the nervous system in the regulation of the glycogen metabolism of skeletal muscle, 1935, 111: 243.

HINES, H. M., C. E. LEESE and G. C. KNOWLTON. The metabolism of skeletal muscle undergoing atrophy of denervation, 1931, 98: 50.

HINES, H. M. See KNOWLTON and HINES, 1934, 109: 200.

See Knowlton and Hines, 1937, 119: 353.

See Knowlton and Hines, 1937, 120: 757.

See Leese, Hines and Jordan, 1932, 100: 241.

HINES, M. The anterior border of the monkey's (Macaca mulatta) motor cortex and the production of spasticity, 1936, 116: 76.

See BOYNTON and HINES, 1933, 106: 175.

See RICHTER and HINES, 1932, 101: 87.

HINMAN, W. F. See PEACOCK and HINMAN, 1935, 113: 235.

HINRICHSEN, J. The physiology of the ileocecal sphincter, 1930, 93: 658.

HINRICHSEN, J. and A. C. IVY. Studies on the ileo-cecal sphincter of the dog, 1931, 96: 494.

HINSEY, J. C. Observations on skin temperatures in hind limbs deprived of their sensory and sympathetic nerve supply, 1934, 109: 53.

On the absence of spinal parasympathetic fibers in the dorsal spinal nerve roots in the cat, 1933, 105: 51.

HINSEY, J. C. and C. C. CUTTING. Reflexes in spinal standing of the cat, 1932, 102: 183.

The Sherrington phenomenon: IV. A study of some of its possible antagonists, 1933, 105: 525.

The Sherrington phenomenon: V. Nervous pathways, 1933, 105: 535.

HINSEY, J. C. and H. S. GASSER. The component of the dorsal root mediating vaso-dilatation and the Sherrington contracture, 1930, 92: 679.

HINSEY, J. C. and J. E. MARKEE. Studies on prolan-induced ovulation in midbrain and midbrain-hypophysectomized rabbits, 1933, 106: 48.

HINSEY, J. C. and R. A. PHILLIPS. Studies on diaphragmatic sensation, 1937, 119: 336.

HINSEY, J. C. and S. W. RANSON. The contralateral flexion reflex and terminal rebound phenomena in spinal cats, 1930, 93: 659.

HINSEY, J. C., S. W. RANSON and E. A. DOLES. Reversal in the crossed extension reflex in decerebrate, decapitate and spinal cats, 1930, 95: 573.

HINSEY, J. C. See RANSON and HINSEY, 1930, 93: 682.

See Ranson and Hinsey, 1930, 94: 471.

HINSON, A. See Britton, Hinson and Hall, 1930, 93: 473, 637.

HIROSE, R. S. The second phase of thrombin action: fibrin resolution, 1934, 107: 693. HIRSCHFELDER, A. D. and E. T. CEDER. Does ethylene affect rate of growth or action of enzymes in animals, 1930, 91: 624.

HIRSCHFELDER, A. D. See BIETER and HIRSCHFELDER, 1929, 91: 178.

HISAW, F. L. and S. L. LEONARD. Relation of the follicular and corpus luteum hormones in the production of progestational proliferation of the rabbit's uterus, 1930, 92: 574.

HISAW, F. L., R. K. MEYER, S. L. LEONARD and H. L. FEVOLD. Influence of follicular and corpus luteum hormones on the uterine endometrium of rabbits and monkeys, 1930, 93: 659.

HISAW, F. L. See FEVOLD and HISAW, 1934, 109: 655.

See FEVOLD, HISAW and GREEP, 1936, 114: 508.

See FEVOLD, HISAW and GREEP, 1936, 117: 68.

See Fevold, Hisaw, Hellbaum and Hertz, 1933, 104: 710.

See FEVOLD, HISAW and LEONARD, 1931, 97: 291.

See HERTZ and HISAW, 1934, 108: 1.

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See LEONARD, HISAW and FEVOLD, 1932, 100: 111.

HISS, J. G. F. See Robb, Dooley, Hiss and Robb, 1935, 113: 110. See Robb and Hiss, 1934, 109: 89.

HITCHCOCK, F. A. Respiratory exchanges during work and recovery, 1931, 97: 534.

HITCHCOCK, F. A. and G. M. CURTIS. The effect of splanchnic resection on the metabolic response to insulin in a case of severe diabetes, 1936, 116: 76.

HITCHCOCK, F. A. and R. C. GRUBBS. The effect of adrenal cortical extract on the respiratory metabolism of normal human beings under various conditions, 1937, 119: 336.

HITCHCOCK, F. A. and J. G. HAUB. Respiratory metabolism and the interconversion of foodstuffs during pupation of the blow fly, 1935, 113: 64.

HITCHCOCK, F. A. and R. M. KRAFT. The effect of ethyl alcohol on the respiratory exchanges during rest, work and recovery, 1932, 101: 57.

HITCHCOCK, F. A. and J. R. MATSON. Basal metabolism in senility, 1933, 105: 52.

HITCHCOCK, F. A. and W. C. McNELLY. Respiratory exchanges during work and recovery, 1930, 93: 660.

HITCHCOCK, F. A. See Carpenter, Hoskins and Hitchcock, 1934, 110: 320.

See Enright, Cole and Hitchcock, 1935, 113: 221.

See Marson and Hitchcock, 1934, 110: 329.

HITCHCOCK, P. See Mason and Hitchcock, 1937, 119: 374.

HOAGLAND, H. A humoral mechanism for peripheral sensory inhibition (adaptation), 1935, 113: 65.

Analysis of electrical responses from lateral-line nerves of fishes, 1933, 105: 53. On the mechanism of the "Berger rhythm" in normal man and in general paretics, 1936, 116: 77.

Pacemakers of human brain waves in normals and in general paretics, 1936, 116: 604.

The physiological control of judgments of duration, 1934, 109: 54.

HOAGLAND, H., M. A. RUBIN and D. E. CAMERON. The electrencephalogram of schizophrenics during insulin hypoglycemia and recovery, 1937, 120: 559.

HOAGLAND, H. See RUBIN and HOAGLAND, 1936, 116: 133.

HÖBER, R. On the nature of intestinal absorption of amino acids, 1936, 116: 78.

Permeability of red cells to organic anions, 1935, 113: 65.

HODGSON, P. See OLMSTED and HODGSON, 1931, 97: 597.

HOELZEL, F. The rate of passage of inert materials through the digestive tract, 1930, **92**: 466.

HOECKER, R. See ROGOFF, WASSERMAN and HOECKER, 1931, 97: 555.

HOFF, E. C. Corticospinal fibres originating in the premotor area and their terminal distribution, 1934, 109: 54.

Interneuronal connections (Bouton terminaux) of the human spinal cord, 1933, 105: 53.

HOFF, E. C. and H. D. GREEN. Cardiovascular reactions induced by electrical stimulation of the cerebral cortex, 1936, 117: 411.

HOFF, E. C. and L. H. NAHUM. Observations on the bilaterality of the carotid sinus reflex in primates, 1935, 113: 66.

HOFF, E. C. See GREEN and HOFF, 1936, 116: 63.

See GREEN and HOFF, 1937, 118: 641.

See Hoff, Hoff, Bucy and Pi-Suser, 1934, 109: 123.

See Nahum and Hoff, 1935, 113: 101.

See NAHUM, HOFF and HOFF, 1936, 116: 111.

HOFF, H. E. Labyrinthine and neck reflexes in single motor neurones of soleus muscle, 1933, 105: 54.

HOFF, H. E., J. DINGLE and L. H. NAHUM. The effect of staphylococcus aureus toxin on the heart, 1937, 119: 337.

HOFF, H. E., E. C. HOFF, P. C. BUCY and J. PI-SUÑER. The production of the silent period by the synchronization of discharge of motor neurones, 1934, 109: 123.

HOFF, H. E. and L. H. NAHUM. The nature of ventricular fibrillation following electric shock and its prevention by acetyl-β-methyl choline chloride, 1935, 110: 675.

HOFF, H. E. See NAHUM and HOFF, 1934, 109: 78.

See Nahum and Hoff, 1934, 110: 56.

See NAHUM, HOFF and HOFF, 1936, 116: 111.

See NAHUM and HOFF, 1937, 119: 378.

HOFFMANN, H. See KLEITMAN, TITELBAUM and HOFFMANN, 1937, 119: 48.

HOFFMAN, O. and F. GUDERNATSCH. Concerning the influence exerted on differentiation by certain amino acids supported by iodine, 1933, 105: 54.

Further studies on amino acids in development, 1934, 109: 55.

Further studies on amino acids in development. VIII. On the physiological value of the amino acids of glutathione and of some proteins in amphibian development, 1935, 113: 67.

HOFFMAN, O. See Gudernatsch and Hoffman, 1931, 97: 527.

See GUDERNATSCH and HOFFMAN, 1932, 101: 47.

See Gudernatsch and Hoffman, 1934, 109: 45.

See Gudernatsch and Hoffman, 1935, 113: 57, 58.

HOLCK, H. G. O. and P. R. CANNON. Delayed death in relation to barbiturate structure, 1936, 116: 78.

HOLCK, H. G. O., M. A. KAÑAN, L. M. MILLS and E. L. SMITH. Effects of castration and of male hormone administration upon the responses of the rat to certain barbiturates, 1937, 119: 338.

HOLLANDER, F. Studies in gastric secretion. III. Evidence in refutation of the Rosemann theory of hydrochloric acid formation, 1931, 98: 551.

HOLLAR, E. D. See DAWSON, DUNCAN, HOLLAR and TAFT, 1935, 113: 34.

HOLMAN, R. The flow and protein content of subcutaneous lymph in dogs of different ages, 1937, 118: 354.

HOLMAN, R. L. Observations on the urea clearance in dogs, 1933, 104: 615.

HOLMES, E. G., R. W. GERARD and E. I. SOLOMON. Studies on nerve metabolism. VI. The carbohydrate metabolism of active nerve, 1930, 93: 342.

HOLT, H., R. W. KEETON and B. VENNESLAND. The effect of gonadectomy on body structure and body weight in albino rats, 1936, 114: 515.

HOLT, J. P. See Lawson and Holt, 1937, 118: 780.

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HOLT, L. E., JR. See RICHTER, HOLT and BARELARE, 1937, 119: 388.

HOLTOM, G. F. See Chaikoff, Gibbs, Holtom and Reichert, 1936, 116: 543.

See Chaikoff, Holtom and Reichert, 1936, 114: 468.

HOMANS, J. See Drinker, Field and Homans, 1934, 108: 509.

See Drinker, Field and Homans, 1934, 109: 30.

HÖNIG, H. H. See Leichsenring, Biester, Hönig, Furnas, Foss and Routt, 1932, 99: 391.

See Leichsenring and Hönig, 1931, 98: 636.

HOOKER, D. R. Chemical factors in ventricular fibrillation, 1930, 92: 639.

Factors in ventricular fibrillation, 1932, 99: 279.

On the recovery of the heart in electric shock, 1929, 91: 305.

HOOKER, D. R. and N. D. KEHAR. Carbohydrate metabolism of the heart during ventricular fibrillation, 1933, 105: 246.

Cardiac metabolism during ventricular fibrillation, 1933, 105: 55.

HOOKER, D. R., W. B. KOUWENHOVEN and O. R. LANGWORTHY. The effect of alternating electrical currents on the heart, 1933, 103: 444.

HOOKER, D. R. See CLARK, HOOKER and WEED, 1934, 109: 166.

See Kehar and Hooker, 1935, 112: 301.

See Kouwenhoven, Hooker and Langworthy, 1932, 101: 65.

See Kouwenhoven, Hooker and Langworthy, 1932, 100: 344.

HOOPES, E. C. and J. L. KING. Prolongation of pregnancy in the rat by the injection of human pregnancy urine extract, 1935, 111: 507.

HOOPES, S. L. See EYSTER and HOOPES, 1934, 109: 33.

See Hellebrandt, Baernstein and Hoopes, 1934, 107: 370.

See Hellebrandt, Brogdon and Hoopes, 1934, 109: 50.

See Hellebrandt, Brogdon and Hoopes, 1935, 112: 442, 451.

See Hellebrandt and Hoopes, 1934, 107: 348.

HOPPER, E. B. See HALPERT, GERMAN and HOPPER, 1933, 103: 351.

HORINE, C. F. and C. G. WARNER. Pulmonary artery pressures, 1933, 105: 562.

HORRALL, O. H. See REGAN and HORRALL, 1932, 101: 268.

HORTON, B. T. See SHEARD, HORTON and CRAIG, 1933, 105: 87.

See Sheard, Williams and Horton, 1937, 119: 403.

HORTON, R. G., D. T. WILBER and S. A. GUTTMAN. The enhancement of muscular contraction after tetanus, 1937, 119: 338.

HORTON, R. G. See GUTTMAN, HORTON and WILBER, 1937, 119: 463.

HORVATH, A. A. Changes in hen's blood produced by a diet of sprouted soybeans, 1930, 94: 65.

HORVATH, S. M. The effect of adrenalectomy on the metabolic response of the albino rat to cold, 1937, 119: 339.

HORVITZ, H. J. See ROBERTS and HORVITZ, 1937, 119: 391.

HOSKINS, F. M. and F. F. SNYDER. The placental transmission of parathyroid extract, 1933, 104: 530.

HOSKINS, R. G. See Carpenter, Hoskins and Hitchcock, 1934, 110: 320.

HOSOI, K. See ALVAREZ and Hosoi, 1930, 94: 448.

HOUSEL, E. L. See Cantarow, Brundage and Housel, 1936, 115: 1.

See Cantarow, Brundage and Housel, 1936, 116: 25.

HOVE, E., C. A. ELVEHJEM and E. B. HART. The physiology of zine in the nutrition of the rat, 1937, 119: 768.

HOVLAND, C. I. Effects of ingestion of nutritive and non-nutritive liquids upon diurnal variations in weight loss, 1935, 114: 235.

Hourly variations in weight loss following ingestion of food, 1935, 111: 448.

Weight loss changes during muscular work following food ingestion, 1935, 112: 307.

HOVLAND, C. I. and J. G. DUSSER DE BARENNE. Periodic fluctuations in motor response to uniform electrical stimulation of the cerebral cortex in monkeys, 1936, 116: 79.

HOWARD, E. Adrenalectomy in mice, and the replacement of X zone bearing adrenals by cortical extract with especial reference to adrenal-gonad relationships, 1937, 120: 36.

Direct determination of the freezing point of normal mammalian and neoplastic tissues, 1934, 109: 56.

Is the adrenal X zone andromimetic, 1937, 119: 339.

Osmotic relationships in the egg, 1932, 101: 57.

The milieu of germ cells and embryonic tissue as hypotonic to adult blood, 1933, 105: 56.

The nature of the abnormalities in measurements of the colligative properties of egg yolk, 1936, 116: 79.

HOWARD, E. and A. GROLLMAN. The effect of extracts of the adrenal cortex on growth and the reproductive system of normal rats, with particular reference to intersexuality, 1934, 107: 480.

HOWARD, E. See GROLLMAN and HOWARD, 1933, 105: 42.

HOWARD, I. M. See Powers, Bowie and Howard, 1930, 92: 665.

HOWE, H. A. The relation of the organ of Corti to audio-electric phenomena in deaf albino cats, 1935, 111: 187.

HOWE, H. A. and D. A. CLARK. Fiber action potentials in the spinal cord of the cat, 1937, 119: 567.

Spike action potentials from fiber tracts in the spinal cord of the cat, 1936, 116: 80.

HOWE, H. A. See Thompson, Howe and Hughson, 1934, 110: 312.

HOWELL, W. H. See Evans and Howell, 1931, 98: 131.

HOYT, L. A. See Steinhaus, Hoyt and Rice, 1932, 99: 512.

HRUBETZ, M. C. The assay of insulin and the blood sugar level, 1934, 107: 284.
The blood sugar level after administration of physostigmine and atropine, 1937, 118: 300.

The blood sugar level after administration of pilocarpine, atropine and acetyl choline, 1936, 114: 551.

The blood sugar level after insulin and epinephrine, 1934, 109: 56.

The blood sugar level following physostigmine and atropine, 1936, 116: 81. The time curve after insulin, 1934, 110: 384.

HRUBETZ, M. C. and S. N. BLACKBERG. Carbohydrate mobilization, 1937, 120: 222.

HRUBETZ, M. C. and F. H. PIKE. Absinthe and the blood sugar level, 1936,

HSU, F. Y. See HEYMANS, BOUCKAERT, FARBER and HSU, 1936, 117: 619.

HUBBARD, R. S. Changes in the reaction of urine on awakening, 1930, 91: 618.

HUBBELL, R. B. The chemical composition of saliva and blood serum of children in relation to dental caries, 1933, 105: 436.

HUDDLESTON, O. L. The influence of retinal stimuli upon labyrinthine headnystagmus of pigeons, 1930, 95: 465.

Treatment of undescended testes (cryptorchidism) with an extract of human placenta, 1936, 116: 81.

HUDDLESTON, O. L. and D. L. ROSE. A study of the influence of polyneuritis on the head-nystagmus of pigeons, 1935, 113: 67.

HUDDLESTON, O. L., R. W. WHITEHEAD and B. E. MORITZ, JR. Demonstration of the polyelectrophysiograph, 1936, 116: 82.

HUDSON, C. L. See RICHARDS, WALKER, HUDSON and HENDRIX, 1934, 109: 87.

See Walker and Hudson, 1937, 118: 130, 153, 167.

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See Walker, Hudson, Findley and Richards, 1937, 118: 121.

See Walker, Richards, Hudson, Findley and Kempton, 1934, 109: 107.

HUGGINS, C., B. H. BLOCKSOM, JR. and W. J. NOONAN. Temperature conditions in the bone marrow of rabbit, pigeon and albino rat, 1936, 115: 395.

HUGGINS, C., W. J. NOONAN and B. H. BLOCKSOM, JR. Effect of elevation of temperature within the physiological range on outlying bone marrow, 1936, 116: 83.

HUGGINS, C. and J. POST. Subtotal ligation of the arteries to the liver, 1937, 119: 340.

HUGGINS, C. B. Chemical relationships in the fluids of the seminal tract, 1932, 101: 58.

HUGGINS, C. B. and B. H. BLOCKSOM, JR. Temperature of bone marrow in rabbits, 1935, 113: 68.

HUGGINS, C. B., H. E. HAYMOND and H. R. McCARROLL. Urethral clonus. A contribution to the physiology of ejaculation, 1934, 108: 192.

HUGGINS, C. B. and A. A. JOHNSON. Chemical observations on fluids of the seminal tract. I. Inorganic phosphorus, calcium, non-protein nitrogen and glucose content of semen and of seminal vesicle, prostate and spermatocele fluids in man, 1933, 103: 574.

HUGGINS, C. B., H. R. McCARROLL and H. E. HAYMOND. Urethral clonus, 1934, 109: 56.

HUGGINS, C. B. See Blocksom, Huggins and Wilson, 1935, 113: 12.

HUGHES, J. and H. S. GASSER. Some properties of the cord potentials evoked by a single afferent volley, 1934, 108: 295.

The response of the spinal cord to two afferent volleys, 1934, 108: 307.

The response of the spinal cord to two stimuli, 1933, 105: 57.

HUGHES, J., G. P. McCOUCH, W. J. SNAPE and W. B. STEWART. Inhibition in internuncial neurons, 1935, 113: 68.

HUGHES, J., G. P. McCOUCH and W. B. STEWART. Cord potentials in acute and chronic spinal cats, 1936, 116: 83.

Cord potentials in the spinal cat, 1937, 118: 411.

HUGHES, J. See CLARK, HUGHES and GASSER, 1935, 113: 27.

See Clark, Hughes and Gasser, 1935, 114: 69.

HUGHES, J. S. See RIDDELL, HUGHES and FITCH, 1933, 106: 676.

HUGHSON, W. A note on the relationship of cerebrospinal and intralabyrinthine pressures, 1932, 101: 396.

See Thompson, Howe and Hughson, 1934, 110: 312.

HULL, F. E. See Buckner, Martin and Hull, 1930, 93: 86.

HULL, F. M. See REDFIELD, ROORBACH and HULL, 1937, 119: 387.

HUMMON, I. F., JR. A photocell multiform stimulator, 1937, 119: 340.
An automatic stimulator, 1935, 113: 69.

HUMMON, I. F., JR. and T. E. BOYD. Changes of electrical resistance in nerve during block by cold, 1934, 109: 57.

Changes in electrical resistance of nerve during block by cold and heat, 1935, 114: 85.

HUMMON, I. F., JR., M. C. PATRAS and R. D. TEMPLETON. The influence of thyroid feeding and thyro-parathyroidectomy on bone regeneration, 1936, 116: 84. HUMMON, I. F., JR. See BOYD and HUMMON, 1934, 109: 14.

HUNT, W. A. See LANDIS and HUNT, 1937, 119: 358.

HUNTER, A. L. See Himwich, Chambers, Hunter and Spiers, 1932, 99: 619.

HUNTER, W. S. See Prosser and Hunter, 1936, 117: 609.

HUNTSMAN, M. E. See Best, Hershey and Huntsman, 1932, 101: 7.

See Best, Huntsman, Ridout and Young, 1935, 113: 11.

HUNTSINGER, M. E. See McClure, Huntsinger and Fernald, 1934, 107: 1, 94. HURD, A. H. Studies on heart-block in the terrapin, 1931, 97: 439.

HURLBURT, M. H. See Himwich, Fazikas, Barker and Hurlburt, 1934, 110:

HURTADO, A. Studies at high altitude, 1932, 100: 487.

HURTADO, A., N. KALTREIDER and W. S. McCANN. Respiratory adaptation to anoxemia, 1934, 109: 626.

HURSH, J. B. Effect of carbon monoxide on the recovery of frog skeletal muscle, 1935, 113: 69.

The effect of CO on recovery of frog skeletal muscle, 1936, 114: 625. See Fenn and Hursh, 1937, 118: 8.

HUTTON, J. H. See BARNES, CULPEPPER and HUTTON, 1935, 113: 7.

HYMAN, L. H. See GERARD and HYMAN, 1931, 97: 524.

I

IHRKE, I. A. and F. D'AMOUR. The influence of testis hormone upon the oestrous cycle in the rat, 1931, 96: 289.

INGALLS, E. N. See Gregersen and Ingalls, 1931, 98: 441.

INGERSOLL, E. H. Functional behavior of coeliac ganglion cells of the rabbit. 1936, 117: 514.

INGERSOLL, E. H., H. W. MAGOUN and S. W. RANSON. The spinal path for responses to cerebellar stimulation, 1936, 117: 267.

INGLE, D. J. Resistance of the rat to histamine shock after destruction of the adrenal medulla, 1937, 118: 57.

Work capacity of the adrenalectomized rat treated with cortin, 1936, 116: 622.

INGLE, D. J., W. M. HALES and G. M. HASLERUD. Influence of partial adrenalectomy on the work capacity of rats, 1935, 113: 200.

Work capacity in the rat after destruction of the adrenal medulla, 1936, 114:653.

INGLE, D. J. and R. E. HARRIS. Voluntary activity of rat after destruction of the adrenal medulla, 1936, 114: 657.

INGLE, D. J. and E. C. KENDALL. Survival of the adrenalectomized nephrectomized rat, 1936, 117: 200.

INGLE, D. J., H. W. NILSON and E. C. KENDALL. The effect of cortin on the concentrations of some constituents of the blood of adrenalectomized rats, 1937, 118: 302.

INGLE, D. J. See Hales, Haslerud and Ingle, 1935, 112: 65. See HARRIS and INGLE, 1937, 120: 420.

See HERON, HALES and INGLE, 1934, 110: 357.

INGRAHAM, R. C., L. F. MOLDAVSKY and E. GELLHORN. On the relation between hypoglycemia and anoxemia, 1937, 119: 341.

INGRAHAM, R. C. and M. B. VISSCHER. The influence of various poisons on the movement of chloride against concentration gradients from intestine to plasma, 1936, 114: 681.

The production of chloride-free solutions by the action of the intestinal epithelium, 1936, 114: 676.

INGRAHAM, R. C. See Visscher and Ingraham, 1932, 101: 101.

See Visscher and Ingraham, 1935, 113: 134. See Visscher and Ingraham, 1936, 116: 157.

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INGRAM, W. R. and R. W. BARRIS. Evidence of altered carbohydrate metabolism in cats with hypothalamic lesions, 1936, 114: 562.

INGRAM, W. R. and C. FISHER. The effects of thyroidectomy, castration, anterior lobe administration and pregnancy upon experimental diabetes insipidus in the cat, 1937, 119: 341.

INGRAM, W. R., C. FISHER and R. W. BARRIS. Effects of lesions in the hypothalamus in cats, 1934, 109: 57.

INGRAM, W. R. and S. W. RANSON. The place of the red nucleus in the postural complex, 1932, 102: 466.

INGRAM, W. R., S. W. RANSON, and F. I. HANNETT. Pupillary dilatation produced by direct stimulation of the tegmentum of the brain stem, 1931, 98: 687.

INGRAM, W. R. See Barris and Ingram, 1936, 114: 555.

See Ranson and Ingram, 1932, 101: 690.
 INSKO, W. M., JR. See Buckner, Insko and Martin, 1932, 102: 271.
 See Buckner, Insko and Martin, 1933, 103: 647.
 See Buckner, Martin and Insko, 1930, 94: 692.

IRVINE-JONES, E. See Gilson and Irvine-Jones, 1930, 92: 160, 165.

IRVING, L. Differential vascular changes during apnea from inflation of the lungs, 1937, 119: 341.

Respiratory characteristics of the blood of the seal, 1935, 113: 70.

IRVING, L. and H. C. FOSTER. The respiratory quotient of resting mammalian muscle as shown by the eviscerated decapitated cat, 1930, 95, 429.
The respiratory quotient of resting mammalian muscle as shown by the eviscer-

ated spinal cat, 1930, 93: 660.

IRVING, L., H. C. FOSTER and J. K. W. FERGUSON. The CO₂ combining power of living mammalian muscle, 1931, 97: 534.

IRVING, L. and J. F. MANERY. The relation between chloride and bicarbonate in the developing trout egg, 1933, 105: 57.

IRVING, L. and M. S. WELCH. Control of the circulation through the brain according to the composition of inspired air, 1934, 109: 58.

IRVING, L. and M. J. WILSON. The carbon dioxide content of gastric mucosa, 1932, 101: 58.

IRVING, L. See CHUTE and IRVING, 1932, 101: 20.

See FISHER and IRVING, 1934, 109: 36.

See Welch and Irving, 1936, **116**: 159. See Welch, Irving and Best, 1935, **113**: 136.

ISAAC, L. A. See RAY and ISAAC, 1930, 91: 377.

ISAACS, B. L. See CUTHBERT, IVY, ISAACS and GRAY, 1936, 115: 480.

IVY, A. C. and F. S. BARRY. Studies on the electrical stunning of dogs, 1932, 99: 298.

IVY, A. C., G. E. DREWYER and B. H. ORNDOFF. The effect of cholecystokinin on the human gall bladder, 1930, 93: 661.

IVY, A. C. and G. B. FAULEY. The effect of hunger on the emptying time of the stomach, 1929, 91: 206.

IVY, A. C. and M. S. KIM. On the mode of action of "secretagogues" (liver extract) in promoting gastric secretion, 1932, 101: 59.

IVY, A. C., G. KLOSTER, G. E. DREWYER and H. C. LUETH. The preparation of a secretin concentrate, 1930, 95: 35.

IVY, A. C., G. KLOSTER, H. C. LUETH and G. E. DREWYER. On the preparation of "cholecystokinin," 1929, 91: 336. IVY, A. C., O. RICHTER and M. S. KIM. Some experiments bearing on the etiology of pernicious anemia, 1932, 101: 59.

IVY, A. C. and J. G. SCHNEDORF. On the hypnotoxin theory of sleep, 1937,

IVY, A. C. See ABBOTT and IVY, 1936, 117: 487.

See ATKINSON and IVY, 1934, 107: 168.

See Bachrach, Bradley and Ivy, 1936, 116: 2.

See Bachrach, Bradley and Ivy, 1936, 117: 203.

See Beazell, Schmidt and Ivy, 1937, 119: 197.

See Bussabarger, Lederer and Ivy, 1936, 116: 22.

See CRITTENDEN and IVY, 1937, 119: 724.

See Cromer and Ivy, 1933, 104: 457.

See Cromer, Young and Ivy, 1933, 104: 468.

See Cuthbert, Ivy, Isaacs and Gray, 1936, 115: 480.

See Drewyer and Ivy, 1930, 94: 285.

See Ferguson, Ivy and Greengard, 1936, 117: 701.

See FREEMAN and IVY, 1935, 113: 46.

See Freeman and Ivy, 1935, 114: 132.

See FREEMAN and IVY, 1937, 118: 541.

See Gray, Bradley and Ivy, 1937, 118: 463.

See GRAY and IVY, 1937, 120: 705.

See Gray, Kim and Ivy, 1936, 116: 210.

See Greengard, Gray and Ivy, 1935, 113: 53.

See Hinrichsen and Ivy, 1931, 96: 494.

See Kim and Ivy, 1933, 105: 220.

See Kim and Ivy, 1936, 115: 386.

See LUETH, IVY and KLOSTER, 1929, 91: 329.

See Maison and Ivy, 1934, 109: 70.

See Mortimer and Ivy, 1929, 91: 220.

See Owen and Ivy, 1931, 97: 276.

See Quigley, Highstone and Ivy, 1934, 108: 151.

See Quigley, Zettelman and Ivy, 1933, 105: 81.

See Quigley, Zettelman and Ivy, 1934, 108: 643.

See Reid, Ivy and Quigley, 1934, 109: 483.

See Rudolph and Ivy, 1931, 97: 556.

See Sacks, Ivy, Burgess and Vandolah, 1932, 101: 331.

See Sandblom, Voegtlin and Ivy, 1935, 113: 175.

See SCHMIDT, BEAZELL and IVY, 1937, 119: 398.

See Sprague and Ivy, 1936, 115: 389.

See Tanturi, Ivy and Greengard, 1937, 120: 336.

See Voegtlin, Greengard and Ivy, 1934, 110: 198.

See Voegtlin, McEwen and Ivy, 1933, 103: 121.

IRWIN, O. C. See NICE, IRWIN and KRAFT, 1931, 96: 305.

IZQUIERDO, J. J. The influence of sympathetic stimulation upon intra-auricular block in the mammalian heart, 1930, 91: 696.

I

JABLONS, B. Isolation and standardization of a chlorokinetic depressor substance in extracts of mammalian kidney, 1935, 113: 70.

JACKSON, C. M. and V. D. E. SMITH. The effects of deficient water intake on the growth of the rat, 1931, 97: 146.

JACKSON, F. K. and A. ALONGE. What constitutes a lethal reduction of temperature, 1934, 109: 447.

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JACOBS, H. R. and A. R. COLWELL. Lesions in the pancreas and in the anterior hypophysis with fatal acidosis following prolonged intravenous administration of glucose (in dogs), 1936, 116: 194.

JACOBS, H. R. and E. W. MASON. The innocuousness of histamine to the dog, 1936, 116: 376.

JACOBS, H. R. D. See Samson and Jacobs, 1932, 99: 433.

JACOBS, M. H., H. N. GLASSMAN and A. K. PARPART. The nature of the influence of temperature on the osmotic properties of the erythrocyte, 1936, 116: 84.

JACOBS, M. H., A. K. PARPART and S. A. CORSON. The influence of electrolytes on the rate of hemolysis in glycerol solution, 1934, 109: 58.

JACOBSEN, C. F. The effects of extirpation of the frontal association areas in monkeys upon complex adaptive behavior, 1934, 109: 59.

The influence of extirpation of the motor and premotor areas of the cortex upon the retention and execution of acquired skilled movements in primates, 1933, 105: 58.

JACOBSEN, C. F. and M. A. KENNARD. The effect of ephedrine sulphate on the reflexes of spinal monkeys, 1932, 101: 60.

JACOBSEN, C. F., F. V. TAYLOR and G. M. HASLERUD. Restitution of function after cortical injury in monkeys, 1936, 116: 85.

JACOBSON, E. Electrical measurements concerning muscular contraction (tonus) and the cultivation of relaxation in man-relaxation-times of individuals, 1934, 108: 573.

Electrical measurements concerning muscular contraction (tonus) and the cultivation of relaxation in man. Studies on arm flexors, 1934, 107: 230.

Electrical measurements of neuromuscular states during mental activities. I. Imagination of movement involving skeletal muscle, 1930, 91: 567.

Electrical measurements of neuromuscular states during mental activities.

II. Imagination and recollection of various muscular acts, 1930, 94: 22.

Electrical measurements of neuromuscular states during mental activities: III. Visual imagination and recollection, 1930, 95: 694.

Electrical measurements of neuromuscular states during mental activities: IV. Evidence of contraction of specific muscles during imagination, 1930, 95: 703

Electrical measurements of neuromuscular states during mental activities: V. Variation of specific muscles contracting during imagination, 1931, 96: 115.

Electrical measurements of neuromuscular states during mental activities: VI. A note on mental activities concerning an amputated limb, 1931, 96: 122.

Electrical measurements of neuromuscular states during mental activities.
VII. Imagination, recollection and abstract thinking, involving the speech musculature, 1931, 97: 200.

The influence of skeletal muscle tension and relaxation on blood pressure, 1936, 116: 86.

Variations in muscular "tonus," 1935, 113: 71.

JAHN, T. L. and F. CRESCITELLI. The electrocardiogram of the grasshopper, 1937, 119: 343.

JAMES, C. M. See CARR and JAMES, 1931, 97: 227.

JAMES, W. T. The effect of reward on the response to painful experience in the conditioned reflex, 1933, 106: 71.

JANUS, A. See Gellhorn and Janus, 1936, 116: 327.

JARES, J. J. Studies on induction of ovulation and the inhibitory influence of corpora lutea on ovulation in the rabbit, 1932, 101: 545.

JASPER, H. and T. PERKINS. Nerve-muscle chronaxie measurements and the Phi Gamma curve, 1932, 100: 564.

JASPER, H. H. See RHEINBERGER and JASPER, 1937, 119: 186.

JEFFERS, W. A. See Griffith, Jeffers and Lindauer, 1935, 113: 285.
See Griffith, Jeffers and Lindauer, 1937, 118: 1.

JELLINEK, E. M. See LOONEY and JELLINEK, 1937, 118: 225.

JELSMA, F. The antagonism between the carotid and vertebral circulations with respect to the control of the heat regulating centers, 1930, 93: 661.
See Barbour and Jelsma, 1931, 97: 503.

JEMTEGAARD, L. M. See BISCHOFF and JEMTEGAARD, 1937, 119: 149.

JENKINS, T. A. See Steinhaus, Boyle and Jenkins, 1932, 99: 503.

See Steinhaus and Jenkins, 1930, 95: 202.

See Steinhaus and Jenkins, 1934, 109: 102.

See Steinhaus, Jenkins and Lunn, 1930, 92: 436.

JENNISON, D. B. See Dempsey, Myers, Young and Jennison, 1934, 109: 307.

JENSEN, H. See Chen, Jensen and Chen, 1931, 97: 511, 512.

See Chen, Jensen and Chen, 1932, 101: 20.

JEPHCOTT, C. M. See Best, Jephcott and Scott, 1932, 100: 285.

JETT-JACKSON, C. E. See Sauer, Jett-Jackson and Reynolds, 1935, 111: 250.

JOCHIM, K., A. BOHNING, W. ROTTERSMAN and A. GRALNICK. The innervation of the coronary vessels, 1935, 113: 71.

JOCHIM, K., L. N. KATZ and W. MAYNE. Further observations of the monophasic action currents, 1934, 109: 59.

The monophasic electrogram obtained from the mammalian heart, 1935, 111:

JOCHIM, K. See ABRAMSON and JOCHIM, 1937, 119: 257.

See Abramson and Jochim, 1937, 120: 635.

See Bohning, Jochim and Katz, 1933, 106: 183.

See Katz, Jochim and Bohning, 1934, 109: 61.

See Katz, Jochim and Bohning, 1936, 116: 88.

See Katz, Jochim, Korey and Mayne, 1933, 105: 59.

See Katz, Weinstein and Jochim, 1935, 113: 76.

See Sigman, Kolin, Katz and Jochim, 1937, 118: 708. See Weinstein, Jochim and Bohning, 1935, 113: 136.

JOFFE, P. See RALLI, FLAUM, JOFFE and STUECK, 1934, 107: 157.

JOHNS, C. L. See Jung and Johns, 1931, 97: 535.

JOHNSON, A. and V. JOHNSON. Attempted auto-transplantation of the adrenal cortex, 1931, 97: 392.

JOHNSON, A. See Johnson, Carlson and Johnson, 1933, 103: 517.
See Johnson and Johnson, 1931, 99: 160.

JOHNSON, A. A. See Dragstedt, Risk and Johnson, 1933, 105: 643.
See Huggins and Johnson, 1933, 103: 574.

JOHNSON, A. F., S. F. SEELEY, E. J. BALDES and H. E. ESSEX. Effect of intravenous injection of sucrose on the total osmotic pressure of blood and urine of the dog, 1935, 113: 72.

JOHNSON, C. W. See Hawley, Johnson and Murlin, 1930, 93: 656.
See Hawley, Johnson and Murlin, 1933, 105: 46.

JOHNSON, E. O. See Pratt, Vanlandingham, Talley, Nelson and Johnson, 1932, 102: 148.

JOHNSON, F. H. See Harvey and Johnson, 1937, 119: 329.

JOHNSON, F. S. See Behnke, Johnson, Poppen and Motley, 1935, 110: 565.

JOHNSON, J. L. Influence of calcium salts and calcium salts in combination with parathyroid extract upon blood sugar, I. Calcium gluconate, 1935, 113: 72.

JOHNSON, J. M. See Voegtlin, Fitch, Kahler and Johnson, 1934, 107: 539.
JOHNSON, J. R. and G. H. PAFF. On the mechanism of block as produced by ouabain in the isolated embryonic heart, 1937, 119: 343.

JOHNSON, J. R., B. E. POLLOCK, H. S. MAYERSON and H. LAURENS. The effect of carbon arc radiation on blood pressure and cardiac output, 1936, 114: 594.

JOHNSON, J. R. and C. J. WIGGERS. The alleged validity of coronary sinus outflow as a criterion of coronary reactions, 1937, 118: 38.

JOHNSON, J. R. See GIBBS, JOHNSON and SHAPIRO, 1931, 97: 243.

JOHNSON, O. H. See Greisheimer and Johnson, 1930, 93: 653.

See Greisheimer and Johnson, 1930, 94: 11.

JOHNSON, R. See HERRIN, JOHNSON and SIEBECKER, 1937, 119: 334.

JOHNSON, R. G. See Wells and Johnson, 1934, 109: 108, 387.

JOHNSON, V., A. J. CARLSON and A. JOHNSON. Studies on the physiological action of glycerol on the animal organism, 1933, 103: 517.

JOHNSON, V., W. F. HAMILTON, L. N. KATZ and W. WEINSTEIN. Studies on the dynamics of the pulmonary circulation, 1937, 119: 344.

Studies on the dynamics of the pulmonary circulation, 1937, 120: 624.

JOHNSON, V. and A. JOHNSON. The secondary rise in blood pressure following peripheral splanchnic nerve stimulation, 1931, 99: 160.

JOHNSON, V. and L. N. KATZ. Tone in the mammalian ventricle, 1937, 118: 26.
Tonus in the mammalian ventricle, 1936, 116: 86.

JOHNSON, V. See Johnson and Johnson, 1931, 97: 392.

JOHNSTON, C. G., J. L. MORRISON and I. S. RAVDIN. Studies in absorption from the gall bladder. II. Calcium, 1931, 97: 535.

JOHNSTON, C. G., I. S. RAVDIN, J. H. AUSTIN and J. L. MORRISON. Studies of gall bladder function. V. The absorption of calcium from the bile-free gall bladder, 1932, 99: 648.

JOHNSTON, C. G. See Andrews, Johnston and Andrews, 1936, 115: 188.

See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1931, 97: 553.

See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1932, 99: 638.

See RAVDIN, JOHNSTON and MORRISON, 1933, 104: 700.

See Raydin, Johnston and Morrison, 1933, 104: 700 See Raydin, Johnston and Morrison, 1933, 105: 82.

See RAVDIN, JOHNSTON, RIEGEL, AUSTIN and WRIGHT, 1932, 101: 86.

See RAVDIN, JOHNSTON, RIEGEL and WRIGHT, 1932, 100: 317.

See Riegel, Johnston and Ravdin, 1931, 97: 555.

See Riegel, Raydin and Johnston, 1932, 99: 656.

See Walker, Schmidt, Elsom and Johnston, 1937, 118: 95.

JOLLIFFE, N. and H. CHASIS. The filtration and secretion of exogenous creatinine in man, 1933, 104: 677.

JOLLIFFE, N., J. A. SHANNON and H. W. SMITH. V. The effects of xylose and sucrose upon the glomerular and urea clearances, 1932, 101: 639.

The excretion of urine in the dog. III. The use of non-metabolized sugars in the measurement of the glomerular filtrate, 1932, 100: 301.

JOLLIFFE, N. and H. W. SMITH. The excretion of urine in the dog. 1. The urea and creatinine clearances on a mixed diet, 1931, 98: 572.

The excretion of urine in the dog. II. The urea and creatinine clearance on eracker meal diet, 1931, 99: 101.

JOLLIFFE, N. See SHANNON, JOLLIFFE and SMITH, 1932, 101: 625.

See Shannon, Jolliffe and Smith, 1932, 102: 534.

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JONES, E., D. J. STEPHENS, H. TODD and J. S. LAWRENCE. Studies in the normal human white blood cell picture. I. Variations in recumbent basal subjects and in individuals with change of posture, 1933, 105: 547.

JONES, E. See LAWRENCE, STEPHENS and JONES, 1933, 106: 309.

JONES, H. D. and R. EVERS. Quantitative determination of blood urea by use of the magneto-optic method, 1935, 113: 73.

JONES, H. D. and R. GOSLIN. Some quantitative studies of the localization of uranium in the principal organs of rabbits during the course of uranium intoxication by use of the magneto-optic method, 1933, 105: 693.

JONES, J. H. and G. M. ROBSON. The effect of overdoses of irradiated ergosterol, administered for approximately two months, on the composition and structure of the bones of rats, 1933, 103: 338.

JONES, K. K. Analysis of duodenal contents in regard to gall-bladder evacuation in man, 1932, 101: 60.

JONES, K. K. and G. H. LAING. The effect of viosterol on the calcium content of dog's bile, 1934, 110: 471.

The effect of viosterol on the calcium content of the bile, 1934, 109: 60.

JONES, K. K. and D. E. MURRAY. The effect of intravenous injection of sodium hexa meta phosphate on the dog's heart, 1937, 119: 344.

The effect of lipoids including cholesterol on the rate of evaporation of water from the skin, 1935, 113:74.

JONES, K. K. and E. A. SEARING. The saponifiable and non-saponifiable matter in bile as affected by diet, 1936, 116: 87.

JONES, K. K. and R. O. SHERBERG. Observations on the analysis of the saponifiable and non-saponifiable matter in bile, 1936, 116: 87.

JONES, L. See Landis, Jones, Angevine and Erb, 1932, 101: 67.

JONES, M. and B. O. BARNES. The thyroxine content of thyroglobulin, 1933, 105: 58.

JONES, M. See Barnes, Bueno and Jones, 1934, 109: 5.
See Barnes and Jones, 1933, 105: 556.

JONES, M. E. The effect of varying levels of iodine intake on the thyreoglobulin content of the thyroid gland, 1934, 107: 513.

JONES, M. E. and F. R. STEGGERDA. Studies on water metabolism in normal and hypophysectomized frogs, 1935, 112: 397.

JONES, T. B. and H. P. SMITH. The blood fibrinogen level in hepatectomized dogs and an outline of a method for the quantitative determination of fibrinogen, 1930, 94: 144.

JORDAN, D. P. See LEESE, HINES and JORDAN, 1932, 100: 241.

JORDAN, F. M. and C. H. GREENE. Anemia in jaundice. II. The formation of hemoglobin in experimental obstructive jaundice, 1930, 91: 409.

JUHN, M. and B. O. BARNES. The feather germ as indicator for thyroid preparations, 1931, 98: 463.

JUHN, M., F. D'AMOUR and E. B. WOMACK. The effects of simultaneous injections of the female and male hormones in capons, 1930, 95: 641.

JUHN, M. and L. V. DOMM. The relation of gonadal condition to erythrocyte number in fowls, 1930, 94: 656.

JUNG, F. T. and H. GREENGARD. Effects of cholecystokinin on the isolated gall bladder, 1932, 101: 61.

Response of the isolated gall bladder to cholecystokinin, 1933, 103: 275.

JUNG, F. T. and C. L. JOHNS. A method for determining the rate of eruption of teeth, 1931, 97: 535. in the basal

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JUNG, F. T. and A. L. SHAFTON. Chronology of certain physical changes on puberty, 1936, 116: 88.

Further observations on the subarcolar node, 1937, 119: 345.

JUNG, F. T. See Bussabarger and Jung, 1935, 113: 24.
See Bussabarger and Jung, 1936, 117: 59.

K

KABAT, H. An analysis of cardio-accelerator fibers in the vago-sympathetic trunk of the dog, 1937, 119: 345.

KABAT, H., B. J. ANSON and H. W. MAGOUN. Electrical stimulation of the hypothalamus in the waking animal, 1935, 113: 74.

KABAT, H., B. J. ANSON, H. W. MAGOUN and S. W. RANSON. Stimulation of the hypothalamus with special reference to its effect on gastro-intestinal motility, 1935, 112: 214.

KABAT, H. See Ranson, Kabat and Magoun, 1934, 109: 85.

KAHLER, H., F. DE EDS, S. ROSENTHAL and C. VOEGTLIN. Electron equilibria in biological systems. III. The measurement of electrochemical potentials by means of a vacuum-tube static voltmeter which eliminates minute polarization currents, 1929, 91: 225.

KAHLER, H. See Voegtlin, Fitch, Kahler and Johnson, 1934, 107: 539. KALTREIDER, N. See Hurtado, Kaltreider and McCann, 1934, 109: 626.

KALTREIDER, N. See HURTADO, KALTREIDER and MCCANN, 1954, 109: KALTREIDER, N. L. See Bronk and Kaltreider, 1931, 97: 508.

KAMINESTER, S. See REYNOLDS and KAMINESTER, 1935, 112: 640.
See REYNOLDS and KAMINESTER, 1936, 116: 127, 510.

KAMM, O. See Kunde, Van Dyke, Wallen-Lawrence, Kamm and Carlson, 1931, 97: 538.

KAÑAN, M. A. See HOLCK, KAÑAN, MILLS and SMITH, 1937, 119: 338.

KAPLAN, B. I. and H. W. SMITH. Exerction of inulin, creatinine, xylose and urea in the normal rabbit, 1935, 113: 354.

The excretion of inulin, creatinine, xylose and urea in the rabbit, 1935, 113: 75. KAPSINOW, R. See Underhill, Fisk and Kapsinow, 1930, 95: 325, 334, 339.

See Underhill, Kapsinow and Fisk, 1930, 95: 302, 315.

KARR, J. W. and E. S. NASSET. Physiological effects of high frequency current.

V. The non-protein nitrogen partition and the secretion of urine in anesthetized dogs, 1934, 107: 170.

KARR, J. W. See NASSET, KARR and PETERS, 1932, 101: 78.

KARR, W. G. and W. O. ABBOTT. The chemistry of the contents of the small intestine: The fasting contents, reaction and osmotic pressure after acid, bicarbonate, water and glucose feeding, 1935, 113: 75.

KARRER, E. and H. C. STEVENS. The response of negative after-images to passive motion of the eyeball and the bearing of these observations on the visual perception of motion, 1930, 94: 611.

KARRER, E. See Stevens, Karrer and Snodgrass, 1932, 101: 97.

KASDON, S. See Ruch, Fulton and Kasdon, 1937, 119: 394.
KATZ, H. L. and L. B. NICE. Changes in the chemical elements of the blood after emotional excitement, 1933, 105: 59.

Changes in the chemical elements of the blood of rabbits during emotional excitement, 1934, 107: 709.

The number of reticulocytes in the blood of emotionally excited rabbits, 1934, 109: 60.

KATZ, H. L. See NICE and KATZ, 1933, 105: 75.

See NICE and KATZ, 1934, 108: 349.

See NICE and KATZ, 1934, 109: 80.

See NICE and KATZ, 1935, 113: 205.

See NICE and KATZ, 1936, 117: 571.

See NICE, KATZ, FISHMAN and FRIEDMAN, 1935, 113: 102.

KATZ, L. M. See Johnson and Katz, 1937, 118: 26.

See Sigman, Kolin, Katz and Jochim, 1937, 118: 708.

KATZ, L. N. Observations on the external work of the isolated turtle heart, 1932, 99: 579.

The rôle of the ventricle in the filling of the heart, 1930, 93: 662.

The rôle played by the ventricular relaxation process in filling the ventricle, 1930, 95: 542.

KATZ, L. N., and W. ACKERMAN. The effect of the heart's position on the electrocardiographic appearance of ventricular extrasystoles, 1932, 101: 62.

KATZ, L. N. and W. A. BRAMS. Observations on the overdistended heart, 1931, 97: 535.

Studies on the overdistended heart. II. The rôle of relaxation in filling the distended and overdistended heart, 1931, 98: 569.

KATZ, L. N., I. GUTMAN and F. H. OCKO. Alterations in the electrical field produced by changes in the contacts of the heart with the body, 1936, 116: 302.

KATZ, L. N., K. JOCHIM and A. BOHNING. Further observations on the coronary circulation, 1936, 116: 88.

The importance of the extravascular force exerted by the cardiac muscle on the flow of blood in the coronary vessels, 1934, 109: 61.

KATZ, L. N., K. JOCHIM, H. KOREY and W. MAYNE. Observations on monophasic action currents obtained in mammals by direct and indirect leads, 1933, 105: 59.

KATZ, L. N. and H. KOREY. The manner in which the electric currents generated by the heart are conducted away, 1934, 109: 62.

The manner in which the electric currents generated by the heart are conducted away, 1935, 111: 83.

KATZ, L. N. and S. RODBARD. The rôle of the liver in regulating the distribution and rate of the blood flow, 1937, 119: 346.

KATZ, L. N. and O. SAPHIR. The nerve plexus between the aorta and pulmonary artery. I. Observations on its nature and function, 1933, 104: 253.

KATZ, L. N., E. SIGMAN, I. GUTMAN and F. H. OCKO. The effect of good electrical conductors introduced near the heart on the electrocardiogram, 1936, 116: 343.

KATZ, L. N., W. WEINSTEIN and K. JOCHIM. The variability in the distribution of the outflow from each of the three major coronary arteries, 1935, 113: 76.

KATZ, L. N. See Banus, Katz and Mull, 1929, 91: 150.

See Bohning, Jochim and Katz, 1933, 106: 183.

See Brams and Katz, 1931, 98: 556.

See Brams, Katz and Kohn, 1933, 104: 120.

See Jochim, Katz and Mayne, 1934, 109: 59.

See Jochim, Katz and Mayne, 1935, 111: 177.

See Johnson, Hamilton, Katz and Weinstein, 1937, 119: 344.

See Johnson, Hamilton, Katz and Weinstein, 1937, 120: 624.

See Johnson and Katz, 1936, 116: 86.

See MAYNE and KATZ, 1936, 114: 688.

See Ocko, Gutman, Sigman and Katz. 1935, 113: 103.

KATZ, L. N.

See Soskin and Katz, 1931, 97: 563.

See WITT, KATZ and KOHN, 1934, 107: 213.

KAUFMANN, J. and R. GOTTLIEB. The innervation of the renal parenchyma. A study to demonstrate nerve endings in renal epithelium, 1931, 96: 40.

KAUFMAN, K. See Calvin and Kaufman, 1937, 119: 286.

KAUFMAN, W. Differential reflex effect of chemical carotid gland stimulation on reflexes of respiratory and non-respiratory somatic musculature, 1937, 119: 347.

Modification of reflex contractions of the tibialis anticus by administration of sodium sulphide and cyanide, 1936, 116: 89.

KAYE, W. See Necheles, Frank, Kaye and Rosenman, 1936, 114: 695.

KEARNEY, R. D. See Kunde, Becker, Saruk and Kearney, 1934, 109: 65.

KEARNS, J. E., JR. See DRAGSTEDT and KEARNS, 1932, 100: 262.

KEETON, R. W., H. McKENZIE, S. OLSON and L. PICKENS. The influence of varying amounts of carbohydrate, fat, protein and water on the weight loss of hogs in under-nutrition, 1931, 97: 473.

KEETON, R. W. and S. OLSON. The influence of varying amounts of protein on weight loss of two hogs in undernutrition, 1930, 93: 662.

KEETON, R. W. See Holt, Keeton and Vennesland, 1936, 114: 515.

KEHAR, N. D. and D. R. HOOKER. Evidences of an altered tissue state in ventricular fibrillation, 1935, 112: 301.

KEHAR, N. D. and E. V. McCOLLUM. Bound water in cardiac muscle in relation to ventricular fibrillation, 1934, 110: 485.

KEHAR, N. D. See HOOKER and KEHAR, 1933, 105: 55, 246.

KEIL, H. H. See KEIL, KEIL and NELSON, 1934, 108: 215.

KEIL, H. L., H. H. KEIL and V. E. NELSON. The effect of addition of minerals and sucrose to milk as shown by growth, fertility and lactation of the rat, 1934, 108: 215.

KEITH, N. M. The action of diuretics in the normal individual, 1931, 97: 536.

KEITH, N. M. and M. H. POWER. The urinary excretion of sucrose and its distribution in the blood after intravenous injection into normal men, 1937, 120: 203.

KEITH, N. M., M. H. POWER and R. D. PETERSON. The distribution and recovery of intravenously injected sucrose, 1934, 109: 62.

The renal excretion of sucrose when injected intravenously in man, 1933, 105: 60.

KEITH, N. M., A. E. OSTERBERG and M. W. BINGER. The effect of certain po-

tassium salts on acid base excretion in the normal individual, 1937, 119: 347.

KEITH, N. M., M. H. POWER, and R. D. PETERSON. The renal excretion of sucrose, xylose, urea and inorganic sulphates in normal man: comparison of simultaneous clearances, 1934, 108: 221.

KEITH, N. M., E. G. WAKEFIELD and M. H. POWER. The excretion and utilization of sucrose when injected intravenously in man, 1932, 101: 63.

KEITH, N. M. and M. A. WALKER. The effect of a solution of gum acacia in restoring diminished body fluid, 1930, 93: 663.

KEITH, N. M. See Power, Keith and Wakefield, 1935, 113: 107.

See Walker and Keith, 1930, 95: 561.

KELLER, A. D. Nervous control of respiration. II. Types of periodic breathing observed as a result of placing lesions in the brain-stem, 1931, 96: 59.

Observations on the central origin of the sympathetic tone of the eye structures in the cat, 1931, 97: 536.

Observations on the localization of the heat regulating mechanisms in the upper medulla and pons, 1930, 93: 665.

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KELLER, A. D.

On the possible respiratory center in the cephalic brain-stem, 1930, 93: 663.

Protection by peripheral nerve section of the gastro-intestinal tract from ulceration following hypothalamic lesions, 1935, 113: 76.

The separation of the heat loss and the heat production mechanisms in chronic preparations, 1935, 113: 78.

Types of periodic breathing observed as a result of placing lesions in the brainstem, 1930, 93: 664.

KELLER, A. D., W. P. CHASE and R. S. ROY. Hemi-ablation of the cerebellum in the monkey without irregularity in voluntary muscular movement, 1937, 119: 348.

KELLER, A. D., M. C. D'AMOUR and W. K. HARE. Ulceration in the digestive tract following hypophysectomy, 1934, 109: 63.

KELLER, A. D. and J. F. FULTON. The action of anesthetic drugs on the motor cortex of monkeys, 1931, 97: 537.

KELLER, A. D. and J. W. HAMILTON, JR. Degeneration of the infundibular nerve fibers in the cat without eliciting diabetes insipidus, 1937, 119: 348.
Normal sex functions following section of the hypophyseal stalk in the dog, 1937, 119: 349.

KELLER, A. D. and W. K. HARE. The independence of righting reflexes and of normal muscle tone from the rubro-spinal tracts, 1933, 105: 61.

KELLER, A. D., W. K. HARE and M. C. D'AMOUR. Digestive tract ulceration and fibrinous clots in the cardiovascular system in the dog following experimental brain lesions, 1933, 105: 61.

KELLER, A. D. and **W. NOBLE.** Adiposity with normal sex function following extirpation of the posterior lobe of the hypophysis in the dog, 1935, **113**: 79. Further observations on enhanced appetite with resultant adiposity following removal of the posterior lobe of the hypophysis, 1936, **116**: 90.

KELLER, A. D., W. NOBLE and J. W. HAMILTON, JR. Effects of anatomical separation of the hypophysis from the hypothalamus in the dog, 1936, 117: 467.

KELLER, A. D., W. NOBLE and P. D. KELLER. Hypoglycemia following experimental hypothalamic lesions, 1935, 113: 80.

KELLER, A. D., R. S. ROY and W. P. CHASE. Extirpation experiments which demonstrate that the neocerebellum is non-essential for any functions previously attributed to the cerebellum, 1936, 116: 89.

Extirpation of the neocerebellar cortex without eliciting so-called cerebellar signs, 1937, 118: 720.

Motion pictures of dogs and monkeys with various cerebellar involvements, 1936, 116: 91.

KELLER, A. D. and L. STEWART. The superior colliculi and the pupillary light reflex in the cat, 1933, 101: 64.

KELLER, A. D. See HARE and KELLER, 1933, 105: 45.
See Himwich and Keller, 1930, 93: 658.

KELLER, P. D. See KELLER, NOBLE and KELLER, 1935, 113: 80.

KELLOGG, H. B. Studies on the fetal circulation of mammals, 1930, 91: 637.

KELLY, E. See Parsons and Kelly, 1933, 104: 150.

KELSO, L. E. A. See HELLEBRANDT, BROGDON and KELSO, 1932, 101: 365.

KEMMERER, A. R., C. A. ELVEHJEM, E. B. HART and J. M. FARGO. The nutritive value and efficiency of mineralized milk, 1932, 102: 319.

KEMP, E. H. and G. COPPÉE. The latency of electric responses in the auditory tracts of the brain stem, 1936, 116: 91. KEMP, E. H., G. E. COPPÉE and E. H. ROBINSON. Electric responses of the brain stem to unilateral auditory stimulation, 1937, 120: 304.

KEMP, E. H. and C. H. GRAHAM. The retinal response of the pigeon eye to lights of various wavelengths, 1935, 113: 81.

KEMP, E. H. and E. H. ROBINSON. Electric responses of the brain stem to bilateral auditory stimulation, 1937, 120: 316.

KEMPNER, W. Pheo-hemin in plant cells catalyzing respiration, 1936, 116: 92.

KEMPTON, R. T. Nussbaum's experiment, 1934, 109: 63.

Nussbaum's experiment on renal secretion, 1937, 119: 175.

See Walker, Richards, Hudson, Findley and Kempton, 1934, 109: 107

KENDALL, E. C. See Allers and Kendall, 1937, 118: 87.

See Ingle and Kendall, 1936, 117: 200.

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See Ingle, Nilson and Kendall, 1937, 118: 302.

See Koelsche and Kendall, 1935, 113: 335.

See Svirbely and Kendall, 1936, 116: 187.

KENNARD, J. H. The reversal by progestin of responses on the non-pregnant uterus of the cat, 1937, 118: 190.

KENNARD, M. A. Age and other factors in motor recovery from precentral lesions in monkeys, 1936, 115: 138.

KENNARD, M. A. and L. ECTORS. Forced circling movements in monkeys following lesions of the frontal lobe, 1937, 119: 350.

KENNARD, M. A. See Fulton and Kennard, 1933, 105: 35.

See Fulton, Kennard and Watts, 1934, 109: 37.

See Jacobsen and Kennard, 1932, 101: 60.

KENNEDY, C. See Nilson, Palmer and Kennedy, 1935, 111: 341.

KENNON, B. R., III, M. E. SHIPP and D. C. HETHERINGTON. A study of the white blood cell picture in six young men, 1937, 118: 690.

KENYON, F. and I. G. MACY. Some physiological variations in peripheral blood cell counts, 1930, 93: 665.

KENYON, M. See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, Mac-Calmont, Sharpe and Cortell, 1937, 119: 306.

KERKHOF, A. See Fahr, Davis, Kerkhof, Hallock and Giere, 1932, 101:

See FAHR and KERKHOF, 1936, 116: 46.

KERN, R. See Evans, Szurek and Kern, 1936, 117: 405.

See Kunde, Oslund and Kern, 1931, 96: 45.

KERR, R. S. See Schmitt, Kerr and Bueker, 1935, 110: 539.

KESTEN, H. D. A study of saponin hemolysis of individual erythrocytes, 1929, 91: 1.

KEYS, A. and L. ADELSON. Calcium changes in the plasma resulting from brief severe work and the question as to the permeability of the capillaries to calcium, 1936, 115: 539.

KEYS, A., F. G. HALL and E. S. G. BARRON. The position of the oxygen dissociation curve of human blood at high altitude, 1936, 115: 292.

KIM, C. W. See Smith and Kim, 1937, 119: 405.

KIM, M. S. and A. C. IVY. On the mode of action of secretagogues (liver extract) in promoting gastric secretion, 1933, 105: 220.

The gastric secretagogic value of various digestive secretions, 1936, 115: 386.

KIM, M. S. See Gray, Kim and Ivy, 1936, 116: 210.

See Ivy and Kim, 1932, 101: 59.

See Ivy, RICHTER and KIM, 1932, 101: 59.

KING, C. E. The carotid sinuses in relation to splenic contractions induced by anoxemia, 1937, 119: 351.

The effect of carbon dioxide upon arterial blood pressure and vasomotor reflexes in barbitalized dogs, 1933, 105: 62.

The effect of double vagotomy and carotid sinus denervation on the reaction of barbitalized dogs to hyperventilation, 1937, 119: 350.

The effect of respiration on the scratch reflex, 1931, 98: 368.

KING, C. E., E. A. BLAIR and W. E. GARREY. The inspiratory augmentation of proprioceptive reflexes. A study of the knee jerk and the Achilles reflex, 1931, 97: 329.

KING, C. E., W. E. GARREY and W. R. BRYAN. Some factors affecting spinal reflexes, 1932, 101: 64.

The effect of carbon dioxide, hyperventilation and anoxemia on the knee jerk. 1932, 102: 305.

KING, F. B. and D. RAPPORT. The fate of intravenously injected tyrosine, 1933, 103: 288.

KING, F. B., R. SIMONDS and M. AISNER. The tyrosine content of tissues after intravenous injection, 1935, 110: 573.

KING, H. D. See RAUH and KING, 1936, 116: 126.

KING, J. L. Oxygen usage of uterine muscle of the sow, 1932, 99:631.

KING, J. L., M. COLLINS and H. E. PETERSON. Experimental interference with rabbit embryos in the early stages of their development, 1932, 102: 375.

KING, J. L. See Hoopes and King, 1935, 111: 507.

KING, J. T. A stronger coagulant for use with heparin-plasma, 1930, 93: 665.

Culture of mammalian lymph node: comparative effects of autogenous serum marrow extract and saline chick embryo extract, 1935, 113: 81.

Heparin inhibition of "activated" and normal tissue extracts, 1932, 101: 64. Thermolability of the plasma factor in activation of tissue extracts, 1933, 105: 62

KINNEY, R. See Bullock, Gregersen and Kinney, 1935, 112: 82. See Bullock, Kinney and Gregersen, 1934, 109: 17.

KINSMAN, J. M. See Hamilton, Moore and Kinsman, 1931, 97: 528.

See Hamilton, Moore, Kinsman and Spurling, 1932, 99: 534. See Hamilton, Moore, Kinsman and Spurling, 1930, 93: 654.

See Wakerlin, Bruner and Kinsman, 1935, 113: 135.

KIRKLIN, B. R. See Gianturco and Kirklin, 1933, 106: 46.

KIRMIZ, J. P. See Steinhaus, Kirmiz and Lauritsen, 1932, 99: 487.

KIRSCH, R. E. See Pincus and Kirsch, 1936, 115: 219.

KISTLER, G. H. Injury to the stomach and bowel by intraperitoneal use of barbiturates for anesthesia, 1933, 105: 63.

KLEIN, D. See Baker, Bacon, Lundy and Klein, 1930, 93: 630.

KLEIN, H., E. R. ORENT and E. V. McCOLLUM. The effects of magnesium deficiency on the teeth and their supporting structures in rats, 1935, 112: 256.

KLEINBERG, W. The hemopoietic effect of cobalt and cobalt-manganese compounds in rabbits, 1934, 108: 545.

See Gordon and Kleinberg, 1937, 118: 757.

See Gordon, Kleinberg and Ponder, 1937, 120: 150.

KLEITMAN, N. Studies on the physiology of sleep. VIII. Diurnal variation in performance, 1933, 104: 449.

The effect of continued stimulation and of sleep upon conditioned salivation, 1930, 94: 215.

ced by KLEITMAN, N. and N. CAMILLE. Studies on the physiology of sleep. VI. The behavior of decorticated dogs, 1932, 100: 474.

tor reThe rôle of the cerebral cortex in diurnal sleep in dogs, 1931, 97: 537.

The role of the cerebral cortex in didinal sleep in dogs, 1551, 51; 55

KLEITMAN, N., N. R. COOPERMAN and F. J. MULLIN. Is there a continuous curve of the depth of sleep, 1936, 116: 92.
Studies on the physiology of sleep. IX. Motility and body temperature during

sleep, 1933, 105: 574.

KLEITMAN, N. and A. DOKTORSKY. Studies on the physiology of sleep. VII.
The effect of the position of the body and of sleep on rectal temperature in man, 1933, 104: 340.

KLEITMAN, N. and S. TITELBAUM. The effects of thyroid administration upon motor conditioned reflexes in dogs, 1934, 109: 64.

The effect of thyroid administration upon the differentiating ability of dogs, 1936, 115: 162

KLEITMAN, N., S. TITELBAUM and P. FEIVESON. Diurnal variation in reaction time and its relation to body temperature, 1935, 113: 82.

KLEITMAN, N., S. TITELBAUM and H. HOFFMANN. The establishment of the diurnal temperature cycle, 1937, 119: 48.

KLEITMAN, N. See Blier and Kleitman, 1930, 94: 118.
See Cooperman, Mullin and Kleitman, 1934, 107: 589.
See Mullin, Kleitman and Cooperman, 1933, 106: 478

KLEYNTJENS, F. Some factors influencing thermal panting in cats, 1937, 119: 352.

KLINE, R. See Britton and Kline, 1933, 105: 12.

See Britton and Kline, 1934, 109: 15. See Britton and Kline, 1935, 113: 17.

See Britton, Silvette and Kline, 1936, 116: 15.

See Eagle, Britton and Kline, 1932, 102: 707.

See SILVETTE, BRITTON and KLINE, 1936, 116: 144.

KLINE, R. F. See BRITTON and KLINE, 1936, 115: 627.

KLINGHOFFER, K. A. Permeability of the red cell membrane to glucose, 1935, 111: 231.

The distribution of glucose between blood cells and serum, 1937, 118: 431.

KLOSTER, G. See IVY, KLOSTER, DREWYER and LUETH, 1930, 95: 35.

See Ivy, Kloster, Lueth and Drewyer, 1929, 91: 336.

See LUETH, IVY and KLOSTER, 1929, 91: 329.

KLÜVER, H. and P. C. BUCY. "Psychic blindness" and other symptoms following bilateral temporal lobectomy in Rhesus monkeys, 1937, 119: 352.

KNEER, L. See WICKWIRE, KNEER, NEILD and BURGE, 1934, 109: 111.

KNEER, L. P. and W. E. BURGE. Further evidence that dextrose is more easily used than any of the other sugars, 1930, 93: 666.

KNIAZUK, M. See Molitor and Kniazuk, 1936, 116: 111.

KNOBLE, R. M. and H. A. SMITH. The effect of cinchophen on the liver of white rats, 1931, 97: 537.

KNOEFEL, P. and H. DAVIS. The frequency of impulses in the nerve fibers to the nictitating membrane of the eat, 1933, 104: 81.

KNOEFEL, P. K. Strychnine and the chronaxie, 1936, 117: 638.

KNOWLTON, F. P. and C. J. CAMPBELL. Observations on peripheral inhibition in arthropods, 1929, 91: 19.

KNOWLTON, G. C. and H. M. HINES. Acetylcholine contracture of denervated muscle, 1937, 120: 757.

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KNOWLTON, G. C. and H. M. HINES.

The contractile element of the acetylcholine contracture of denervated muscle, 1937, 119: 353.

The respiratory metabolism of atrophic muscle, 1934, 109: 200.

KNOWLTON, G. C. See HINES and KNOWLTON, 1933, 104: 379.

See HINES and KNOWLTON, 1933, 105: 51.

See HINES AND KNOWLTON, 1934, 110: 8.

See Hines and Knowlton, 1935, 111: 243.

See HINES and KNOWLTON, 1937, 120: 719.

KELLER, A. D. A cat and a dog exhibiting unilateral overflexion, 1935, 113: 77.

Autonomic discharges elicited by physiological stimuli in mid-brain preparations, 1932, 100: 576.

Movie pictures of animals having various brainstem lesions, 1935, 113: 78.

See Hines, Leese and Knowlton, 1931, 98: 50.

KOBRAK, H., J. R. LINDSEY, H. B. PERLMAN and H. DUBNER. The effect of limited cochlear lesions on cochlear potentials and middle ear muscle reflexes, 1936, 116: 93.

KOBRAK, H. See Dubner, Gerard and Kobrak, 1936, 116: 38.

KOBRAK, H. G. and H. G. PERLMAN. Animal experiments on normal and pathological sound conduction, 1937, 119: 353.

KOCHAKIAN, C. D. The comparative efficacy of various androgens as determined by the rat assay method, 1937, 119: 354.

The effect of androgens on the nitrogen content of the seminal vesicles and prostate of castrate white rats, 1937, 119: 355.

KOCHAKIAN, C. D. and J. R. MURLIN. The relationship of the synthetic male hormone, androstendion, to the protein and energy metabolism of castrate dogs, and the protein metabolism of a normal dog, 1936, 117: 642.

KOELSCHE, G. A. and E. C. KENDALL. The relation of the suprarenal cortical hormone to nitrogen metabolism in experimental hyperthyroidism, 1935, 113: 335.

KOHLER, G. O., C. A. ELVEHJEM and E. B. HART. Goat's milk anemia, 1935, 113: 279.

KOHN, L. See Brams, Katz and Kohn, 1933, 104: 120.

See Witt, Katz and Kohn, 1934, 107: 213.

KOHN, R. See Necheles, Levitsky, Kohn and Maskin, 1936, 116: 112.
See Necheles, Levitsky, Kohn, Maskin and Frank, 1936, 116: 330.

KOLB, L. C. See LANGWORTHY and KOLB, 1935, 111: 571.

KOLIN, A. An electromagnetic recording flowmeter, 1937, 119: 355.
See Sigman, Kolin, Katz and Jochim, 1937, 118: 708.

KOMAROV, S. A. The action on the nitrogenous bases of the gastric juice on blood pressure, pancreatic secretion and flow of bile, 1936, 115: 604.

See VINEBERG and KOMAROV, 1933, 104: 73.

See Webster and Komarov, 1931, 97: 569.

KONHEIM, B. G. An analysis of the afferent and efferent motor mechanism in the frog by longitudinal and transverse sections at various levels of the encephalon, 1937, 119: 356.

KOPPANYI, T. A chemical analysis of the duration of barbiturate action, 1935, 113: 82.

Contributions to the physiology and pharmacology of vomiting, 1931, 97: 538. Studies on the synergism and antagonism of drugs. I. The non-parasympathetic antagonism between atropine and the miotic alkaloids, 1932, 101: 65.

KOPPANYI, T. and A. LIEBERSON. A note on determination of circulation time, 1930, 94: 564.

KOPPANYI, T. and W. S. MURPHY. Experimental analysis of barbital action.

1934, 109: 65.

KOPPANYI, T., W. S. MURPHY, J. M. DILLE and S. KROP. Colorimetric detection of barbituric acid derivatives, 1934, 109: 64.

KOPPANYI, T., W. S. MURPHY and S. KROP. Studies on barbital, 1933, 105: 64. KOREY, H. See Katz, Jochim, Korey and Mayne, 1933, 105: 59.

See Katz and Korey, 1934, 109: 62.

See Katz and Korey, 1935, 111: 83.

KORR, I. M. See Pitts and Korr, 1937, 119: 385.

KORTH, C. and S. H. PROGER. The initial drop in temperature of the blood in a superficial vein of the fore-arm following a stimulus of hot water to the contralateral extremity, 1934, 107: 55.

KOSKOFF, Y. D. See Dusser de Barenne and Koskoff, 1932, 101: 30.

See Dusser de Barenne and Koskoff, 1932, 102: 75.

See Dusser de Barenne and Koskoff, 1933, 105: 28.

See Dusser de Barenne and Koskoff, 1934, 107: 441.

KOSSMANN, C. E. See Zweifach and Kossmann, 1937, 120: 23.

KOSTER, H., A. SHAPIRO and H. LERNER. On the rate of secretion of bile, 1936, 115: 23.

KOSTER, H. See Shapiro and Koster, 1936, 116: 317.

See Shapiro, Koster, Rittenberg and Schoenheimer, 1936, 117: 525.

KOTYUKA, E. See Liddell, Anderson, Kotyuka and Hartman, 1935, 113: 87.

KOUWENHOVEN, W. B., D. R. HOOKER and O. R. LANGWORTHY. Recovery of the electrically fibrillated dog heart by the electric countershock, 1932, 101: 65.

The current flowing through the heart under conditions of electric shock, 1932, 100: 344.

KOUWENHOVEN, W. B. See HOOKER, KOUWENHOVEN and LANGWORTHY, 1933, 103: 444.

KOZELKA, F. L. Ineffectiveness of parathormone in parathyroidectomized rachitic dogs, 1936, 116: 93.

KOZELKA, F. L. and H. J. TATUM. The influence of theelin and the gonad stimulating principle of the anterior pituitary on calcium metabolism in rachitic dogs, 1937, 119: 356.

KOZODOY, M. See CANZANELLI and KOZODOY, 1933, 103: 298.

KRAATZ, C. P. A possible rôle of the eosinophil leucocytes in the endocrine complex of the female rat, 1936, 117: 250.

KRAFT, R. M. The effects of the gonadal-stimulating hormone of the anterior pituitary on the voluntary activity, the age of maturity and the size of the litter in immature female albino rats, 1932, 102: 355.

See Hitchcock and Kraft, 1932, 101: 57. See Nice, Irwin and Kraft, 1931, 96: 305.

KRAKOWER, A. Fecal "fat" and its relation to fat in the diet, 1934, 107: 49.

KRAMER, M. M., M. T. HARMAN and A. K. BRILL. Disturbances of reproduction and ovarian changes in the guinea pig in relation to vitamin C deficiency, 1933, 106: 611.

KRASNO, M. See Eyster and Krasno, 1933, 105: 32.

See Eyster, Maresh and Krasno, 1933, 105: 33.

KRASNO, M. R. Studies on the T potential of the tortoise heart, 1935, 113:83.

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ym-: 65. KRASNO, M. R., J. A. E. EYSTER and J. P. HETTWER. Action potentials from the heart of the early chick embryo, 1937, 119: 357.

KRASNO, M. R., J. A. E. EYSTER and C. A. MAASKE. The nature of the T wave potentials in the tortoise heart, 1935, 114: 119.

KRASNO, M. R. See EYSTER, BAST and KRASNO, 1935, 113: 40.

See Eyster, Bast and Krasno, 1937, 119: 305.

See Eyster, Krasno and Hettwer, 1937, 120: 173.

See Eyster, Krasno, Maaske and Ulevich, 1936, 116: 46.

See Eyster, Krasno, Maaske and Ulevich, 1937, 120: 663.

See Eyster, Maresh and Krasno, 1933, 106: 574.

See Eyster, Maresh and Krasno, 1934, 109: 34.

See Eyster, Maresh and Krasno, 1934, 110: 422.

See Eyster, Maresh and Krasno, 1935, 111: 641. See Maaske, Krasno and Eyster, 1937, 119: 365.

KRAUSE, A. C. The lipids of the sclera, cornea, choroid and iris, 1934, 110: 182.

KRAUSE, A. C. and E. CHAN. The chemical constitution of the conjunctiva, choroid and iris, 1933, 103: 270.

KRETZSCHMAR, N. R. See GORDON, ALVING, KRETSCHMAR and ALPERT, 1937, 119: 483.

KRISS, M. The influence of the plane of nutrition on the manner of heat disposal by cattle, 1936, 116: 262.

See Yudkin, Kriss and Smith, 1931, 97: 611.

KŘÍŽENECKÝ, J. See RIDDLE and KŘÍŽENECKÝ, 1931, 97: 343.

KROC, R. L. and S. J. MARTIN. The relation of bilateral suprarenalectomy and subsequent extract therapy on the body weight and oestrual cycle of the albino rat, 1934, 108: 438.

KROC, R. L. See MARTIN and KROC, 1933, 105: 71.

KROP, S. See KOPPANYI, MURPHY, DILLE and KROP, 1934, 109: 64.

See Koppanyi, Murphy and Krop, 1933, 105: 64.

KROSNICK, M. Y. See Himwich, Goldman and Krosnick, 1932, 102: 365.

KROUSE, R. and W. E. BURGE. A study of the cause of electrical phenomena exhibited in animals and plants, 1936, 116: 94.

KROUSE, R. See WICKWIRE, BURGE and KROUSE, 1936, 116: 638.

KRUEGER, H. Studies on intestinal movements, 1933, 105: 65.

See Gesell, Krueger, Gorham and Bernthal, 1930, 94: 300, 339, 365, 387, 402, 427.

See Gesell, Krueger, Nicholson, Brassfield and Pelecovich, 1932, 100: 202, 227.

See Sumwalt and Krueger, 1936, 116: 152.

KRUEGER, T. Theoretical considerations concerning the acidity of certain areas of the brain during the administration of low oxygen, 1932, **101**: 66.

KRUMBHAAR, E. B. See Camero and Krumbhaar, 1933, 103: 407.

See Wilson and Krumbhaar, 1932, 101: 102.

KRUSE, H. D., M. M. SCHMIDT and E. V. McCOLLUM. Studies on magnesium deficiency in animals. IV. Reaction to galvanic stimuli following magnesium deprivation, 1933, 105: 635.

KRUSE, H. D. See ORENT, KRUSE and McCollum, 1932, 101: 454.

KUGLER, O. E. Ether soluble lipoid phosphorus lecithin and cephalin distribution in the development of the chick, 1936, 115: 287.

KUIZENGA, M. H. See CARTLAND and KUIZENGA, 1936, 117: 678.

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KUNDE, M. M., T. J. BECKER, F. S. SARUK and R. D. KEARNEY. Glutathione content of blood following ingestion of acetone, section of the splanchnics, pancreatectomy, and adrenalectomy, 1934, 109: 65.

KUNDE, M. M., F. E. D'AMOUR, A. J. CARLSON and R. G. GUSTAVSON. Studies on metabolism. VIII. The effect of estrin injections on the basal metabolism, uterine endometrium, lactation, mating and maternal instincts in the adult dog. 1930, 95: 630.

KUNDE, M. M., F. E. D'AMOUR, R. G. GUSTAVSON and A. J. CARLSON. The effect of estrin administration on the reproductive and blood vascular systems: The thyroid, thymus, hypophysis, adrenals, kidneys, liver and spleen, 1931, 96: 677.

KUNDE, M. M., M. F. GREEN and G. BURNS. Blood changes in experimental hypo- and hyperthyroidism (rabbit), 1932, 99: 469.

KUNDE, M. M., M. F. GREEN, E. CHANGNON and E. CLARK. Variations in the blood of rabbits from birth to maturity, 1932, 99: 463.

KUNDE, M. M. and M. NEVILLE. Changes in reflex response and electrical excitation of peripheral motor nerves in experimental hypo- and hyperthyroidism, 1930, 92: 457.

KUNDE, M. M., R. M. OSLUND and R. KERN. The temporary control of post-operative tetany in thyro-parathyroidectomized dogs by the administration of thyroid hormone, 1931, 96: 45.

KUNDE, M. M., H. B. VAN DYKE, Z. WALLEN-LAWRENCE, O. KAMM and A. J. CARLSON. Comparison of the effects of estrin, theelin, gonad stimulating substance from pregnancy urine, and anterior pituitary hormone on the basal metabolism, mating, and maternal instincts, lactation and the reproductive system of normal and castrate female dogs, 1931, 97: 538.

KUNDE, M. M. See Green and Kunde, 1930, 95: 626.
See Larrain, Roberts and Kunde, 1936, 115: 662.
See Westra and Kunde, 1933, 103: 1.

KURTZ, P. L. An experimental index of erythropoietic function in rabbits, 1937, 119: 24.

KURZROK, R. See Cockrill, Miller and Kurzrok, 1935, 112: 577.

KUTZ, R. L., H. SELYE, O. DENSTEDT, C. BACHMAN, D. L. THOMSON and J. B. COLLIP. The effect of the pituitary in carbohydrate metabolism, 1934, 109: 66.

L

LA BARRE, J. The rôle of the central nervous system in the control of pancreatic secretion: I. The secretion of insulin during hyperglycemia, 1930, 94: 13.
 The rôle of the central nervous system in the control of pancreatic secretion:
 II. The external secretion of the pancreas during hyperglycemia, 1930, 94: 17.

LA BARRE, J. and E. U. STILL. Studies on the physiology of secretin. 111. Further studies on the effects of secretin on the blood sugar, 1930, 91: 649.

LACAILLADE, C. W., JR. The determination of the potency of bee venom in vitro, 1933, 105: 251.

LAHR, E. L., O. RIDDLE and R. W. BATES. Effects of prolactin and folliclestimulating hormone on the adult dove testis, 1935, 113: 84.

Histological changes induced in the testes of immature doves and pigeons by gonadotropic hormone, 1936, 116: 94.

LAHR, E. L. See BATES, LAHR and RIDDLE, 1935, 111: 361.
See BATES, RIDDLE and LAHR, 1935, 113: 8, 259.

LAHR, E. L.

See Bates, Riddle and Lahr, 1936, 116: 7.

See Bates, Riddle and Lahr, 1937, 119: 610.

See Bates, Riddle, Lahr and Schooley, 1937, 119: 603.

See RIDDLE, BATES and LAHR, 1935, 111: 352.

See RIDDLE, BATES, LAHR and MORAN, 1936, 116: 128.

See RIDDLE, LAHR and BATES, 1935, 113: 109, 110.

LAING, G. H. See Jones and Laing, 1934, 109: 60.

See Jones and Laing, 1934, 110: 471.

LALICH, J., W. J. MEEK and R. C. HERRIN. Reflex pathways concerned in inhibition of hunger contractions by intestinal distention, 1935, 113: 84.

Reflex pathways concerned in inhibition of hunger contractions by intestinal distention, 1936, 115: 410.

LALICH, J., W. B. YOUMANS and W. J. MEEK. Insulin and gastric motility, 1937, 120: 554.

LAMB, A. R., P. H. PHILLIPS, E. B. HART and G. BOHSTEDT. Studies on fluorine in the nutrition of the rat. I. Its influence on growth, 1933, 106: 350.

LAMB, A. R. See PHILLIPS, LAMB, HART and BOHSTEDT, 1933, 106: 356.

LAMELAS, J. Blood calcium after sympathectomy, adrenin injections and sham rage, 1930, 93: 111.

LAMBERT, E. See Forbes, Davis and Lambert, 1930, 93: 649.

See Forbes, Davis and Lambert, 1930, 95: 142.

See Forbes, Derbyshire, Rempel and Lambert, 1935, 113: 43.

See Rosenblueth, Leese and Lambert, 1933, 103: 659.

LAMBERT, E. F., B. F. SKINNER and A. FORBES. Changes in rheobase and chronaxie on sectioning motor nerve, 1933, 105: 65.

Some conditions affecting intensity and duration thresholds in motor nerve, with reference to chronaxie of subordination, 1933, 106: 721.

LAMBERT, E. F. and A. ROSENBLUETH. A further study of the electric responses of smooth muscle, 1935, 114: 147.

LAMBERT, E. F. See Derbyshire, Rempel, Forbes and Lambert, 1936, 116: 577.

See Forbes, Smith, Lambert, Caveness and Derbyshire, 1933, 103: 131.

See RIOCH and LAMBERT, 1934, 108: 50.

See Rosenblueth, Forbes and Lambert, 1933, 105: 508.

LANDIS, C. Abnormalities of the startle pattern, 1937, 119: 357.

LANDIS, C. and W. A. HUNT. "The startle pattern." "The startle pattern in psychopathological patients," 1937, 119: 358.

LANDIS, E. M. Capillary pressure and hyperemia in muscle and skin of the frog, 1931, 98: 704.

Poiseuille's law and the capillary circulation, 1933, 103: 432.

The capillary blood pressure in mammalian mesentery as determined by the micro-injection method, 1930, 93: 353.

LANDIS, E. M., L. JONES, M. ANGEVINE and W. ERB. The passage of fluid and protein through the human capillary wall during venous congestion, 1932, 101: 67.

LANDS, A. M. and P. H. WOODARD. Some observations regarding the fate of intravenously injected calcium chloride, 1935, 113: 84.

LANDS, A. M. See STOLAND and LANDS, 1930, 93: 691.

LANE, C. E. Some influences of oestrin on the hypophyseal-gonad complex of the immature female rat, 1935, 110: 681. LANE, C. T., W. S. McCULLOCH, C. H. PRESCOTT and J. G. DUSSER DE BA-RENNE. A new method for the investigation of the electrical properties of living tissues, 1935. 113: 85.

LANGWORTHY, O. R. and F. H. HESSER. An experimental study of micturition released from cerebral control, 1936, 115: 694.

Periodic micturition in the cat after section of the sacral nerves, 1936, 115: 685.

LANGWORTHY, O. R. and L. C. KOLB. The experimental production in the cat of a condition simulating pseudo-bulbar palsy, 1935, 111: 571.

LANGWORTHY, O. R., L. G. LEWIS, J. E. DEES and F. H. HESSER. Control of micturition by the central nervous system, 1936, 116: 95.

LANGWORTHY, O. R. See Hooker, Kouwenhoven and Langworthy, 1933, 103: 444.

See Kouwenhoven, Hooker and Langworthy, 1932, 100: 344.

See Kouwenhoven, Hooker and Langworthy, 1932, 101: 65.

See Levin and Langworthy, 1937, 118: 483.

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LANTZ, E. M. and M. C. SMITH. The effect of fluorine on calcium and phosphorus metabolism in albino rats. 1934. 109: 645.

LAPLACE, L. and H. C. BAZETT. Comparison of indirect with direct methods of measuring blood pressure in dogs, 1932, 101: 68.

LAPLACE, L. B. See BAZETT, COTTON, LAPLACE and SCOTT, 1934, 109: 6.

See Bazett, Cotton. Laplace and Scott, 1935, 113: 312.

See Bazett and Laplace, 1933, 103: 48, 321.

See BAZETT and LAPLACE, 1934, 109: 7.

See BAZETT, LAPLACE and SCOTT, 1935, 112: 182

LARRABEE, M. G. and J. P. HENDRIX. After discharge in the central nervous system in response to electrical stimulation of the cerebral cortex, 1937, 119:

LARRABEE, M. G. See Bronk and Larrabee, 1937, 119: 279.

See Bronk, Lewy and Larrabee, 1936, 116: 15.

LARRAIN, A. R., R. G. ROBERTS and M. M. KUNDE. Formation of an epinephrin-like substance in autolyzing adrenal glands, 1936, 115: 662.

LARSON, C. L. See GREEN and LARSON, 1937, 119: 319.

LARSON, P. S. See Chaikoff, Reichert, Larson and Mathes, 1935, 112: 493.

LASHLEY, K. S., W. T. McDONALD and H. N. PETERS. Studies of cerebral function in learning. X. The effects of dilatation of the ventricles upon maze-learning, 1933, 104: 51.

LATCHFORD, W. B. See FENN and LATCHFORD, 1932, 99: 454, 608.

LAUG, E. P. Observations on lactic acid, total CO₂, and pH of venous blood during recovery from severe exercise, 1934, 107: 687.

LAURENS, H. The influence of flaming carbon are radiation on blood pressure, 1932, 101: 68.

LAURENS, H. and P. C. FOSTER. The effect of artificial radiant energy on the tissue temperature gradient in men of different skin colors and after artificial pigmentation, 1937, 118: 372.

LAURENS, H. See Johnson, Pollock, Mayerson and Laurens, 1936, 114: 594.
See Mayerson and Laurens, 1932, 102: 422.

LAURITSEN, K. See Steinhaus, Kirmiz and Lauritsen, 1932, 99: 487.

LAWRENCE, J. S., D. J. STEPHENS and E. JONES. Studies in the normal human white blood cell picture. II. The effect of digestion on the white blood cells, 1933, 106: 309.

LAWRENCE, J. S. See Jones, Stephens, Todd and Lawrence, 1933, 105: 547.

LAWSON, H. The distribution of excitation and inhibition following sympathetic stimulation of the large intestine, 1935, 111: 209.

The rôle of the inferior mesenteric ganglia in the diphasic response of the colon to sympathetic stimuli, 1934, 109: 257.

LAWSON, H. and J. P. HOLT. The control of the large intestine by the decentralized inferior mesenteric ganglion, 1937, 118: 780.

LAWSON, H. and A. M. LEIGH, JR. The influence of the inferior mesenteric ganglion on the mechanical excitability of the dog's colon, 1937, 119: 359.

LAWSON, H. and R. D. TEMPLETON. Studies in the motor activity of the large intestine. II. The influence of balloon technique upon colon motility, 1931, 99: 87.

Studies in the motor activity of the large intestine. III. The longitudinal and circular activity of the distal colon, 1932, 100: 362.

LAWSON, H. See Templeton and Lawson, 1931, 96: 667.
See Templeton and Lawson, 1932, 101: 511.

LAWSON, H. C. See Borkon, Templeton and Lawson, 1935, 113: 14.

See Templeton, Bollens, Lawson, Lutz, Borkon and Galapeaux, 1936, 116: 153.

LAWTON, F. See Collett, Wertenberger, Schott, Lawton, Harlor and Reed, 1935, 113: 29.

LAYMAN, J. A. See REED and LAYMAN, 1930, 92: 275.

LEAKE, C. D. See BRILL and LEAKE, 1930, 93: 636.

LEARMONTH, J. R. and J. MARKOWITZ. Studies on the innervation of the large bowel. II. The influence of the lumbar colonic nerves on the distal part of the colon, 1930, 94: 501.

LEARMONTH, J. R. See Baldes and Learmonth, 1930, 93: 631.

LEBENSOHN, J. E. Visceral reactions associated with induced nystagmus, 1930, 93: 666.

LEBLOND, C. P. and W. O. NELSON. Maternal behavior in hypophysectomized male and female mice, 1937, 120: 167.

LEDERER, L. G. Serum calcium in Eck fistula dogs, 1935, 113: 86.

LEDERER, L. G. and L. A. CRANDALL, JR. Effect of calcium and parathormone on serum calcium in normal, Eck fistula and gastrectomized dogs, 1937, 118: 52.

LEDERER, L. G. See Bussabarger, Bradley and Lederer, 1937, 119: 284. See Bussabarger, Lederer and Ivy, 1936, 116: 22.

LEE, H. M. Distribution of vagus control of the turtle heart, 1935, 112: 207.

LEE, M. See Ayres and Lee, 1936, 116: 2.

LEE, M. O. Calorigenic effects of anterior lobe pituitary hormones, 1930, 93: 666.

LEE, M. O. and Z. M. BACQ. The failure of sympathetic extirpation in the rat to affect the basal metabolism or the calorigenic action of adrenaline, 1933, 103: 637.

LEE, M. O. and E. L. FOX. Surface area in a monkey, Macacus rhesus, 1933, 106: 91.

LEE, M. O. and N. K. SCHAFFER. The effect of anterior pituitary growth hormone on the composition of growth, and on ash, nitrogen and energy balances in rats under a paired-feeding regimen, 1933, 105: 66.

LEE, R. C. See Carpenter, Burdett and Lee, 1934, 109: 18.

See Carpenter and Lee, 1931, 97: 509.

See Carpenter and Lee, 1932, 102: 635, 646, 659.

See Carpenter and Lee, 1933, 104: 10.

See Carpenter, Lee and Burdett, 1933, 105: 17.

LEES, W. M. See Mullin, Lees and Hastings, 1935, 113: 100.

LEESE, C. See Rosenblueth, Leese and Lambert, 1933, 103: 659.

LEESE, C. E. and H. DAVIS. Sustained tension in skeletal muscle in relation to blood flow, 1932, 101: 68.

LEESE, C. E. and L. EINARSON. Conduction time in the afferent tracts of the spinal cord in relation to the flexion reflex, 1934, 109: 296.

Conduction time in the afferent tracts of the spinal cord of the cat in relation to the flexion reflex, 1933, 105: 66.

LEESE, C. E. and A. FOGELBERG. Further evidence for the indirect control of skeletal muscle tone and fatigue by the autonomic nervous system, 1937, 119: 359.

LEESE, C. E., H. M. HINES and D. P. JORDAN. The effect of fasting upon the activity of skeletal muscle, 1932, 100: 241.

LEESE, C. E. and A. C. ROBERTS. The effect of bulbocapnine upon the fatigue of skeletal muscle in situ, 1935, 113: 86.

LEESE, C. E. See Fogelberg and Leese, 1935, 113: 43.

See Hines, Leese and Knowlton, 1931, 98: 50.

See Roberts and Leese, 1933, 105: 83.

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LEHMANN, J. E. The effect of asphyxia on mammalian A nerve fibers, 1937, 119:

The effect of changes in pH on the action of mammalian A nerve fibers, 1937, 118: 600.

The effect of changes in the potassium-calcium balance on the action of mammalian A nerve fibers, 1937, 118: 613.

LEICHSENRING, J. M., A. BIESTER, H. H. HÖNIG, S. M. FURNAS, E. S. FOSS and M. V. ROUTT. Blood regeneration studies. II. Observations on the blood of normal dogs with special reference to the measurement of volume, erythrocytes, leucocytes and nitrogenous constituents, 1932, 99: 391.

LEICHSENRING, J. M. and H. H. HÖNIG. Blood regeneration studies. I. Changes in the volume, number and size of the erythrocytes in hemorrhagic anemia, 1931, 98: 636.

LEICK, R. M. and F. H. SCOTT. The influence of muscle sense fibres on the fatigue of the muscle, 1934, 109: 66.

LEIGH, A. M., JR. See LAWSON and LEIGH, 1937, 119: 359.

LEIGH, O. C. Lymph formation during glandular activity, 1935, 112: 657.

See Heim and Leigh, 1935, 112: 699.

LEIGH, O. C., JR. See Drinker, Field, Heim and Leigh, 1934, 109: 572.
See Field, Leigh, Heim and Drinker, 1934, 110: 174.

LEJWA, A. See Funk, Harrow and Lejwa, 1930, 92: 440.

LELL, W. A., K. E. LIBER and F. F. SNYDER. A quantitative study of placental transmission and the permeability of fetal membranes at various stages of pregnancy, 1932, 100: 21.

LENNOX, W. G. See GIBBS, GIBBS and LENNOX, 1935, 111: 557.
See GIBBS, LENNOX and GIBBS, 1936, 116: 61.

LEONARD, S. L. A study of the pituitary factor increasing the ovarian weights of immature rats when injected in combination with pregnancy urine, 1934, 108:

The nature of the substance causing ovulation in the rabbit, 1931, 98: 406.

LEONARD, S. L., F. L. HISAW and H. L. FEVOLD. Further studies of the follicular-corpus luteum hormone relationship in the rabbit, 1932, 100: 111.

LEONARD, S. L. and P. E. SMITH. The hypophyseal-like qualities of the gonadotropic principle found in the urine of certain individuals, 1934, 108: 22. LEONARD, S. L. See FEVOLD, HISAW and LEONARD, 1931, 97: 291.

See HISAW and LEONARD, 1930, 92: 574.

See HISAW, MEYER, LEONARD and FEVOLD, 1930, 93: 659.

See WHITE and LEONARD, 1933, 104: 44.

LEPESCHKIN, W. W. The thermic effect of death and hemolysis, 1930, 95: 473.

LEPORE, M. J. See Adolph, Gerbasi and Lepore, 1932, 101: 1.

See Adolph, Gerbasi and Lepore, 1933, 104: 502.

See Adolph, Gerbasi and Lepore, 1933, 105: 1.

See Adolph, Gerbasi and Lepore, 1934, 107: 647.

See Adolph and Lepore, 1931, 97: 501.

LERNER, H. See Koster, Shapiro and Lerner, 1936, 115: 23.

LEVIN, L. and H. H. TYNDALE. A new method for the quantitative assay of "follicle-stimulating" substances, 1937, 119: 360.

LEVIN, L. See Tyndale and Levin, 1937, 120: 486.

LEVIN, O. and S. H. SILVERS. Sweating response to heat: Variation in total nitrogen, urea, chlorides and sugar in sweat from different parts of the body, 1931, 97: 538.

LEVIN, P. M. and O. R. LANGWORTHY. Extra-pyramidal control of micturition: the effects of lesions of the tegmentum of the mid-brain, 1937, 118: 483.

LEVINE, R. See Soskin and Levine, 1937, 120: 761.

LEVINSON, A. See COHN, LEVINSON and McCarthy, 1933, 103: 613.

See Perlstein and Levinson, 1932, 99: 626.

LEVITSKY, P. See Necheles, Levitsky, Kohn and Maskin, 1936, 116: 112. See Necheles, Levitsky, Kohn, Maskin and Frank, 1936, 116: 330.

LEVY, S. E. and A. BLALOCK. Fractionation of the output of the heart and of the oxygen consumption of normal unanesthetized dogs, 1937, 118: 368.

LEVY, S. E. See BLALOCK and LEVY, 1937, 118: 734.

LEWIS, J. H. See Cutler and Lewis, 1933, 103: 643.

See Halpert and Lewis, 1930, 93: 506.

LEWIS, L. See FERGUSON, LEWIS and SMITH, 1937, 119: 308.

See HARTMAN, LEWIS and TOBY, 1937, 119: 328.

LEWIS, L. G. See Langworthy, Lewis, Dees and Hesser, 1936, 116: 95.

LEWIS, M. R. and E. M. K. GEILING. Survival and increase of epinephrine in tissue cultures of adrenal glands from chick embryos, 1935, 113: 529.

LEWIS, M. R. See Geiling and Lewis, 1935, 113: 534.

LEWIS, W. B. and G. SLAGLE. Auto-neutralization of acid in the stomach, 1937, 119: 360.

LEWIS, W. B. See Boldyreff, Lewis and Stewart, 1937, 119: 274.

LEWY, F. H. Strength duration curves of the over- and under-excitable nerve muscle apparatus and some consequences concerning clinical application of chronaximetry, 1935, 113: 87.

LEWY, F. H. and F. K. GASSMANN. Experiments on the hypothalamic nuclei in the regulation of chloride and sugar metabolism, 1935, 112: 504.

LEWY, F. H. See BRONK, LEWY and LARRABEE, 1936, 116: 15.

LIBER, K. E. See Lell, LIBER and SNYDER, 1932, 100: 21.

LICHTMAN, S. S. The blood clearance and renal exerction of bile acids following the intravenous injection of cholic and desoxycholic acids, 1936, 117: 665.

LICHTY, J. S. See Hamilton, Lichty and Pitts, 1932, 100: 383.

LIDDELL, H. S. and O. D. ANDERSON. A comparative study of the conditioned motor reflex in the rabbit, sheep, goat and pig, 1931, 97: 539. LIDDELL, H. S., O. D. ANDERSON, E. KOTYUKA and F. A. HARTMAN. The effect of cortin upon experimental neurosis in sheep, 1935, 113: 87.

LIDDELL, H. S., G. F. SUTHERLAND, R. PARMENTER and T. L. BAYNE. A study of the conditioned reflex method for producing experimental neurosis, 1936, 116: 95.

LIDDELL, H. S., G. F. SUTHERLAND, R. PARMENTER, Q. F. CURTIS and O. D. ANDERSON. Further analysis of the conditioned reflex method in relation to the experimental neurosis, 1937, 119: 361.

LIE, E. Caffein and diuresis in man, 1930, 92: 619.

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LIEBERSON, A. See KOPPANYI and LIEBERSON, 1930, 94: 534.

LIGHT, A. B. and C. R. WARREN. Urea clearance and proteinuria during exercise, 1936, 117: 658.

LIGHTBODY, H. D. See SLOCUM and LIGHTBODY, 1931, 96: 35.

LILIENTHAL, J. L., JR. See Otenasek and Lilienthal, 1936, 11: 117.

LILLIE, R. D. See ROSENTHAL and LILLIE, 1931, 97: 131.

LINDAUER, M. A. See Griffith, Jeffers and Lindauer, 1935. 113: 285.

See Griffith, Jeffers and Lindauer, 1937, 118: 1.

LINDSKOG, G. E. and H. H. BRADSHAW. Collateral respiration, 1934, 108: 581.

LINDQUIST, J. L. The influence of insulin on the motility of the urinary bladder (dog), 1932, 100: 1.

See Quigley and Lindquist, 1930, 92: 690.

See Quigley and Lindquist, 1930, 94: 529.

LINDOVIST, T. See FAHRAEUS and LINDOVIST, 1931, 96: 562.

LINDSAY, M. See NICE and LINDSAY, 1932, 101: 79.

LINDSEY, J. R. See Kobrak, Lindsey, Perlman and Dubner, 1936, 116: 93.

LINDSLEY, D. B. Characteristics of single motor unit responses in human muscles during various degrees of contraction, 1935, 113: 88.

Electrical activity of human motor units during voluntary contraction, 1935,

Inhibition as an accompaniment of the knee jerk, 1934, 109: 181.

See Herren and Lindsley, 1931, 99: 167.

See Rosenblueth, Lindsley and Morison, 1936, 115: 53.

LINEGAR, C. R. The antidotal effect of picrotoxin in coma produced by intravenous injection of barbiturates, 1935, 113: 89.

LIPOW, E. G. and W. K. WEAVER. Relation of the autonomic system to the inorganic constituents of blood, 1930, 93: 667.

LISANSKY, E. See Teitelbaum, Ries and Lisansky, 1936, 116: 505.

LIU, A. C. The cooperative action of sympathetic nerve impulses, adrenine and sympathin on the nictitating membrane of the cat, 1935, 112: 690.

LIU, A. C. and A. ROSENBLUETH. Reflex liberation of circulating sympathin, 1935, 113: 555.

LIVINGSTON, W. K. See Burget and Livingston, 1931, 97: 249.

LIVINGSTONE, H. M., E. ANDREWS and W. E. ADAMS. Simultaneous direct and indirect blood pressure determinations, 1931, 97: 588.

LLOYD, R. See Burget, Moore and Lloyd, 1932, 101: 16, 565, 570.

LLOYD, R. W. See Burget, Moore and Lloyd, 1933, 105: 15, 187.

See Manville and Lloyd, 1932, 100: 394.

LOCKWOOD, J. E., D. R. SWAN and F. A. HARTMAN. A further study of the relation of the adrenal cortex to vitamin C, 1936, 117: 553.

LOCKWOOD, J. E. See HARTMAN, BROWNELL and LOCKWOOD, 1932, 101: 50.

See Hartman, Lockwood and Brownell, 1933, 105: 46.

LOEB, L. See HESSELBERG and LOEB, 1937, 118: 528.

See Moore, Suntzeff and Loeb, 1935, 114: 1.

See THURSTON, SMADEL and LOEB, 1935, 114: 19.

LOEBEL, R. O., H. E. HIMWICH and D. P. BARR. The regulation of the respiration in nephritis with nitrogen retention, 1930, 93: 667.

LOEBEL, R. O. See Shorr, Loebel and Richardson, 1931, 97: 559.

See SHORR, LOEBEL and RICHARDSON, 1932, 101: 92.

LOEHR, W. M. See BEUTNER, MILLER and LOEHR, 1933, 105: 6.

LOEW, E. R. and T. L. PATTERSON. Gastric motility of a fish during hunger and digestion, 1937, 119: 361.

The reflex influence of the lower portion of the large gut upon the tonus and movements of the empty stomach in dogs, 1935, 113: 89.

LOEWEN, D. F., M. E. FIELD and C. K. DRINKER. The colloid osmotic pressure of dog blood and lymph, 1931, 98: 70.

LOMAN, J. See Dameshek and Loman, 1932, 101: 140. See Myerson, Loman, Edwards and Dill, 1931, 98: 373.

LONG, C. N. H. and F. D. W. LUKENS. Adrenalectomized-departeratized cats, 1936, 116: 97.

The effect of the adenotropic fraction of the anterior pituitary upon the glycosuria of hypophysectomized-depancreatized and adrenalectomized-depancreatized cats, 1936, 116: 96.

LONG, C. N. H., F. D. W. LUKENS and E. G. FRY. The effect of adrenalectomy and hypophysectomy upon the fatty infiltration of the liver following total pancreatectomy in the cat, 1936, 116: 96.

LONG, C. N. H. See LUKENS and LONG, 1936, 116: 98.

LONG, M. L., E. HILL and F. BISCHOFF. The posterior pituitary hormone in metabolism. III. The effect of pitressin and pituitrin upon the lipoid distribution, 1932, 102: 402.

LONG, M. L. See Bischoff and Long, 1930, 95: 403.

See Bischoff and Long, 1931, 97: 215.

See Bischoff and Long, 1931, 99: 253.

LONGMIRE, W. P., JR. The central control of postaral reactions in the lizard, 1937, 119: 362.

LONGWELL, B. B. and A. RAVIN. The effect of intravenous administration of protamine insulin, 1936, 117: 453.

LOONEY, J. M. and E. M. JELLINEK. The oxygen and carbon dioxide content of the arterial and venous blood of normal subjects, 1937, 118: 225.

LORENTE DE NÓ, R. Facilitation of motoneurones, 1935, 113: 505.

Reflex reversal and interaction of allied vestibular reflexes, 1933, 105: 122.

The effect of an antidromic impulse on the response of the motoneurone, 1935, 112: 595.

The refractory period of the motoneurones, 1935, 111: 283.

The summation of impulses transmitted to the motoneurones through different synapses, 1935, 113: 524.

The synaptic delay of the motoneurones, 1935, 111: 272.

LORENTE DE NÓ, R. and H. T. GRAHAM. The excitability of the soma (body and dendrites) of the motoneurones tested with electrical and synaptic stimuli, 1936, 116: 97.

LORENTE DE NÓ, R. See GRAHAM and LORENTE DE NÓ, 1936, 116: 63.

LOUCKS, M. M. and F. H. SCOTT. Calcium in the coagulation of blood, 1929, 91: 27. LOUCKS, R. B. A technique for faradic stimulation of tissues beneath the integument in the absence of conductors penetrating the skin, 1936, 116: 98.

LOUGH, D. H. See VAN LIERE, DAVID and LOUGH, 1935, 113: 134.

See Van Liere, David and Lough, 1936, **115**: 239. See Van Liere, Lough and Sleeth, 1936, **116**: 156.

LOWRY, T. See BARD, BROOKS and LOWRY, 1932, 101: 3.

LOZNER, J. Relation of stainability and electric potential differences to the pH value, 1930, 93: 668.

LUCAS, A. M. Neurogenous activation of ciliated epithelium, 1935, 112: 468.

LUCK, J. M. See Davis and Luck, 1936, 117: 542.

LUCKHARDT, A. B. See Brewer, Bryant and Luckhardt, 1934, 109: 14.

See Montgomery and Luckhardt, 1929, **91**: 210. See Mullin and Luckhardt, 1934, **109**: 77, 78.

See Mullin and Luckhardt, 1935, 113: 100.

LUCO, J. V. The sensitization of inhibited structures by denervation, 1937, 120: 179.

See Rosenblueth and Luco, 1937, 120: 781.

LUETH, H. C. Studies on the flow of bile into the duodenum and the existence of a sphincter of Oddi, 1931, 99: 237.

The relation of duodenal motility to the resistance of bile flow into the duodenum, 1930, 93: 668.

LUETH, H. C., A. C. IVY and G. KLOSTER. Further observations on the action of "cholecystokinin," 1929, 91: 329.

LUETH, H. C. See Ivy, Kloster, Drewyer and Lueth, 1930, 95: 35. See Ivy, Kloster, Lueth and Drewyer, 1929, 91: 336.

LUKENS, F. D. W. Pancreatectomy in the pig, 1937, 118: 321.

LUKENS, F. D. W. and C. N. H. LONG. Further observations on the effect of total adrenalectomy upon experimental pancreatic diabetes, 1936, 116: 98.

LUKENS, F. D. W. See Long and Lukens, 1936, 116: 96, 97.
See Long, Lukens and Fry, 1936, 116: 96.

LUMLEY, F. H. and L. B. NICE. Blood sugar of adrenalectomized rats, 1930, 93:

LUNDBERG, H. Bile flow and bile pigment output after denervation of the liver, 1931, 98: 602.

LUNDHOLM, H. See WHITEHORN and LUNDHOLM, 1930, 92: 214.

LUNDY, C. J. See Baker, Bacon, Lundy and Klein, 1930, 93: 630.

LUNN, J. J. See Steinhaus, Jenkins and Lunn, 1930, 92: 436.

LURIE, M. H. See Davis, Derbyshire, Lurie and Saul, 1934, 107: 311.

LUTZ, A. See TEMPLETON, BOLLENS, LAWSON, LUTZ, BORKON and GALAGEAUX, 1936, 116: 153.

LUTZ, B. R. The effect of adrenaline on the auricle of elasmobranch fishes, 1930, 93: 669.

The effect of adrenalin on the auricle of elasmobranch fishes, 1930, 94: 135.

The innervation of the heart of the elasmobranch, Scyllium canicula, 1930, 93: 669.

The innervation of the stomach and rectum and the action of adrenalin in elasmobranchs, 1931, 97: 540.

Respiratory rhythm in the elasmobranch, Scyllium canicula, 1930, 93: 670.

LUTZ, B. R. and L. C. WYMAN. Reflex cardiac inhibition of branchio-vascular origin in Squalus acanthias and Necturus maculosus, 1932, 101: 69.

LUTZ, B. R. See WYMAN and LUTZ, 1930, 93: 699.

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LUYET, B. J. A differential ultraviolet absorption in live and dead cells, 1936, 116: 98.

On the mechanism of death in cells killed by high pressure, 1937, 119: 362.

LYMAN, G. P. See Spies and Lyman, 1932, 102: 527.

LYMAN, Y. See FARRELL and LYMAN, 1936, 117: 559.

See Farrell and Lyman, 1937, 118: 64.

LYONS, C. Emotional hypercholesterolemia, 1931, 98: 156.

See Drinker, Field, Ward and Lyons, 1935, 112: 74.

LYONS, W. R. See CHAIKOFF and LYONS, 1933, 106: 716.

M

MAASKE, C. A., M. R. KRASNO and J. A. E. EYSTER. Action potentials from the gastroenemius muscle of the frog, 1937, 119: 365.

MAASKE, C. A. See Bunting, Meek and Maaske, 1935, 114: 100.

See Eyster, Krasno, Maaske and Ulevich, 1936, 116: 46.

See Eyster, Krasno, Maaske and Ulevich, 1937, 120: 663.

See Krasno, Eyster and Maaske, 1935, 114: 119.

MacCalmont, W. See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, MacCalmont, Sharpe and Cortell, 1937, 119: 306.

See Hafkesbring and MacCalmont, 1937, 119: 322.

MACHELLA, T. E. Hot-wire principle applied to measurement of blood velocity in vessels in situ, 1932, 101: 70.

The velocity of blood flow in arteries in animals, 1936, 115: 632.

MACHT, D. I. A new demonstration of physiological activity of corpus luteum, 1930, 93: 671.

Action of cobra venom on the nervous system, 1935, 113: 90.

Action of saligenin and monobrom saligenin on the central nervous system, 1935, 113: 91.

Comparative physiological activity of camphor and menthol, 1936, 116: 101.

Comparative toxicity of blood after arteriotomy, asphyxiation and injuries to the brain, 1931, 96: 662.

Comparison of cobra venom and morphine as analgesics, 1936, 116: 101.

Effect of cobra venom on paralysis agitans, 1937, 119: 367.

Influence of barometric changes on potency of digitalis for cats, 1931, 97: 540.

Local anesthetic properties of some aliphatic alcohols, 1933, 105: 68.

Mechanism of psyllium action on intestines, 1935, 113: 91.

Physiological effect of extract from cicadas, 1937, 119: 368.

Physiological studies of grasshopper extracts, 1937, 119: 368.

Quantitative comparison of some muscle and nerve reactions after decerebration and decapitation, respectively, 1932, 101: 70.

Synergistic and antagonistic effects of milk and meat extracts, 1934, 109: 66.

The absorption of drugs through normal and pathological nucous membranes, 1933, 105: 67.

The absorption of fats, oils and other chemicals through the skin, 1937, 119: 365. Zoöpharmacological and phytopharmacological studies of human spinal fluid, 1930, 93: 670.

MACHT, D. I. and J. A. BLACK. Concerning the effect of psyllium seeds on intestinal movements, 1932, 101: 71.

MACHT, D. I. and K. BRIGHTON. Physiological action of some di-benzyl ethanol amides, 1937, 119: 369.

MACHT, D. I. and H. F. BRYAN. Action of some antiseptics on muscle oxydase, 1935, 113: 91. 1936,

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MACHT, D. I. and H. F. BRYAN.

Activity of muscle oxydase in relation to method of slaughter, 1935, 113: 92.

Antagonistic action of follicular and corpus luteum extracts on bitterlings, 1936, 116: 103

Effect of deuterium oxide on action of some enzymes, 1936, 116: 103.

Influence of opium alkaloids and cocaine on auto-oxidation of brain and muscle tissues, 1936, 116: 102.

Phytotoxic reactions of dry blood, 1937, 119: 367.

MACHT, D. I. and L. A. BURROWS. Physiological action of thiomorpholine proponal derivatives, 1935, 113: 92.

MACHT, D. I. and H. C. CHITWOOD. Physiological action of some glyoxoladine compounds, 1935, 113: 93.

MACHT, D. I. and H. M. COOK. Relation of method of slaughter to the toxicity of blood sera and muscle extracts, 1931, 97: 541.

Toxicity of muscle extracts after arteriotomy, asphyxiation, injuries to the brain and electrocution, 1931, 97: 662.

MACHT, D. I. and G. F. D'ALELIO. Physiological action of some N-ethanol amides, 1936, 116: 104.

Physiological action of some N-methyl amides, 1936, 116: 104.

MACHT, D. I. and M. E. DAVIS. Comparative toxicity of aliphatic alcohols containing 1 to 18 carbon atoms, 1932, 101: 71.

Further studies on menstrual toxin, 1933, 105: 68.

Quantitative comparison of some muscle and nerve reactions after decerebration and decapitation, 1932, 102: 138.

Responses to drugs of Ursus americanus, 1936, 116: 105.

Some pharmacodynamic reactions of Arctomys monax, 1933, 105: 69.

Synergistic and antagonistic effects of alcohol, caffeine and nicotine mixtures, 1934, 109: 67.

Toxicity of reptilian blood, 1935, 113: 94.

MACHT, D. I. and H. A. B. DUNNING, JR. Physiological action of salicylal-amino-pyridine and brom-salicylal-amino pyridine, 1937, 119: 367.

Physiological effects of three isomeric saligenins and their bromine derivatives, 1934, 109: 68.

MACHT, D. I., F. DUNNING and A. E. STICKELS. Action of some derivatives of hydroxylbenzyl alcohol, 1932, 101: 70.

MACHT, D. I. and N. FOSS. Physiological action of disalicyl aldehyde, 1934, 109: 68.

Physiological effects of quinolyl-ethanol, 1934, 109: 69.

MACHT, D. I. and M. L. GRUMBEIN. Comparison of indole-acetic, indole-butyric and alpha-naphthalene-acetic acids on plants and animals, 1937, 119: 369.

MACHT, D. I. and W. C. HARDEN. Physiological action of asymmetric mercurochrome and thiomercurochrome, 1936, 116: 105.

MACHT, D. I. and M. PAULSON. Phytopharmacological examination of stomach washings from various clinical conditions, 1931, 97: 542.

MACHT, D. I. and I. R. PELS. Detoxification experiments on pemphigus blood, 1934, 109: 69.

MACHT, D. I. and R. V. RICE. Physiological comparison of tri-brom ethanol and some homologues, 1937, 119: 366.

Macintosh, F. C. and H. C. RAWLINSON. The augmenting effect of the chorda tympani on sympathetic salivary secretion after atropine, 1934, 109: 70.

MacIntosh, F. C. See Fleming and MacIntosh, 1934, 109: 36.

MacKAY, E. M. A comparison of the relation between the rate of urea excretion and the amount of renal tissue in the dog and other mammals, 1932, 100: 402.

Factors which determine renal weight. XV. The relations between the vitamin B (old terminology) and protein intakes, 1933, 106: 571.

Influence of adrenalectomy on liver fat as varied by diet and other factors, 1937, 120: 361.

The influence of a pancreas extract ("fat metabolizing hormone") upon fat deposition in the liver on a low protein diet, 1937, 119: 783.

The rate of absorption of glucose from the intestinal tract, 1933, 105: 69.

The storage of water with glycogen in the liver, 1932, 101: 72.

MacKAY, E. M. and R. H. BARNES. Influence of adrenalectomy on the ketosis of fasting and on the action of the anterior pituitary ketogenic principle, 1937, 118: 184.

The effect of adrenalectomy on liver fat in fasting and after the administration of anterior pituitary extracts, 1937, 118: 525.

Mackay, E. M., H. C. BERGMAN and R. H. BARNES. A comparison of the influence of fasting upon the tolerance to glucose and galactose, 1935, 112: 591.

Mackay, E. M., H. C. BERGMAN and L. L. Mackay. Serum potassium and sodium as altered by adrenalectomy and nephrectomy, 1937, 120: 83.

Mackay, E. M. and J. R. COCKRILL. The regulation of renal activity. XII.
The relation of the rate of creatinine excretion in the urine to the plasma concentration, 1930, 94: 220.

MacKAY, E. M. and L. L. MacKAY. Relation of the urine chloride rate to the plasma chloride concentration before and after administration of sodium chloride, 1936, 115: 455.

Mackay, E. M. See Barnes and Mackay, 1936, 114: 534.

Mackay, L. L. See Mackay, Bergman and Mackay, 1937, 120: 83.
See Mackay and Mackay, 1936, 115: 455.

MacKAY, M. E. Further data concerning the histamine salivary secretion, 1929, 91: 123.

The action of histamine on the motility of different parts of the intestinal tract, 1930, 95: 527.

MacKAY, M. E. and S. G. BAXTER. Restoration of pancreatic secretion by peptone and histamine, 1931, 97: 543.

Restoration of the pancreatic secretion by peptone and histamine, 1931, 98: 42.

MacKay, M. E. See Barkin and MacKay, 1930, 91: 370.

Mackenzie, H. See Keeton, Mackenzie, Olson and Pickens, 1931, 97: 473.

MacLEOD, J. Local variations in the normal polynuclear count in man, 1935, 111: 655.

MACKLER, H., J. M. D. OLMSTED and W. W. SIMPSON. Hydrolysis of phosphocreatine and lactic acid production in frog's muscle, 1929, 91: 362.

Phosphocreatine as a buffer in mammalian muscle, 1930, 94: 626.

MacPHERSON, W. E., H. E. ESSEX and F. C. MANN. The rate of disappearance of glycogen during contraction of the perfused heart of the rabbit, 1932, 99: 429.

MACY, I. G. See Donelson and Macy, 1932, 100: 420.
See Kenyon and Macy, 1930, 93: 665.

MADDOCK, W. G. and F. A. COLLER. The rôle of the extremities in the dissipation of heat, 1933, 106: 589. n and 2. vita-

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MAGEE, C., J. BRICKER and R. GESELL. Changes in action potentials of the central mechanism controlling breathing produced by modifications of the respiratory act, 1937, 119: 370.

MAGEE, C. See GESELL, BRICKER and MAGEE, 1935, 113: 48.
See GESELL, BRICKER and MAGEE, 1936, 117: 423.

See GESELL, CULVER, BRICKER and MAGEE, 1935, 113: 49.

MAGOUN, H. W. Maintenance of the light reflex after destruction of the superior colliculus in the cat, 1935, 111: 91.

MAGOUN, H. W. The rôle of tonic reflexes in the postural reactions to cerebellar stimulation, 1936, 116: 106.

MAGOUN, H. W., W. K. HARE and S. W. RANSON. Electrical stimulation of the interior of the cerebellum in the monkey, 1935, 112: 329.

MAGOUN, H. W., S. W. RANSON and A. HETHERINGTON. The liberation of adrenin and sympathin induced by stimulation of the hypothalamus, 1937, 119: 615.

MAGOUN, H. W. See Hare, Magoun and Ranson, 1936, 117: 261.

See Ingersoll, Magoun and Ranson, 1936, 117: 267.

See Kabat, Anson and Magoun, 1935, 113: 74.

See Kabat, Anson, Magoun and Ranson, 1935, 112: 214.

See Ranson, Kabat and Magoun, 1934, 109: 85.

See Ranson, Magoun and Hare, 1936, 116: 126.

MAHONEY, W. Hypoglycaemia hypophysiopriva, 1934, 109: 475.
The hypophysectomized chimpanzee, 1936, 116: 106.

The hypophysectomized-pancreatectomized monkey, 1935, 113: 94.

MAIN, R. J. Alterations of alveolar CO₂ in man accompanying postural change, 1937, 118: 435.

Alveolar CO₂, a physiological variant, 1937, 119: 371.

Variations in alveolar carbon dioxide in man during hunger, 1937, 119: 7.

MAISON, G. L., W. H. HIGHSTONE, J. MAYKA, P. H. BURGERT and D. E. MURRAY. Anemia following gastrectomy in the rat, 1933, 105: 69.

MAISON, G. L. and A. C. IVY. Gastrectomy and subsequent hematologic studies in the hog, 1934, 109: 70.

MAISON, G. L. and O. S. ORTH. pH variation in gastroenemius muscle of intact rabbit after contraction, 1937, 119: 371.

MAJOR, S. G. Glycogenesis in the totally phlorhizinized organism, 1932, 101: 621.MAJOR, S. G. and F. C. MANN. Glycogenolytic effect of epinephrine on skeletal muscle, 1932, 101: 462.

The formation of glycogen following pancreatectomy, 1932, 102: 409.

MAJOR, S. G. See Mann and Major, 1931, 97: 543.

MAKEPEACE, A. W., G. W. CORNER and W. M. ALLEN. The effect of progestin on the in vitro response of the rabbit's uterus to pituitrin, 1936, 115: 376.

MAKEPEACE, A. W., G. L. WEINSTEIN and M. H. FRIEDMAN. The effect of progestin and progesterone on ovulation in the rabbit, 1937, 119: 512.

MAKEPEACE, A. W. See Weinstein and Makepeace, 1937, 119: 508.

MALAM, M. See SHORR, MALAM and RICHARDSON, 1937, 119: 404.

MALTANER, E. See Wadsworth, Maltaner and Maltaner, 1930, 91: 423. See Wadsworth, Maltaner and Maltaner, 1931, 97: 74.

See Wadsworth, Maltaner and Maltaner, 1937, 119: 80.

MALTANER, F. See Wadsworth, Maltaner and Maltaner, 1930, 91: 423.
See Wadsworth, Maltaner and Maltaner, 1931, 97: 74.
See Wadsworth, Maltaner and Maltaner, 1937, 119: 80.

MALTBY, A. B. Spectrophotometric comparison of blood and muscle oxyhemoglobin and carboxyhemoglobin, 1933, 103: 75.

The effects of partial and complete occlusion on pressures in compressed arteries, 1932, 101: 72.

MALTBY, A. B. and C. J. WIGGERS. Studies on human blood pressure criteria and methods. I. The effects of partial and complete occlusion on actual pressures in compressed arteries, 1932, 100: 604.

MALTBY, A. B. See WIGGERS and MALTBY, 1931, 97: 689.

MANERY, J. F. The distribution of electrolytes in rat tissues, 1937, 119: 372.
See IRVING and MANERY, 1933, 105: 57.

MANEVAL, K. E. See GREEN and MANEVAL, 1932, 101: 43.

MANLY, R. S. and W. R. MURLIN. Comparative effects of oral administration of sucrose, fructose and glucose to phlorizinized dogs, 1936, 116: 107.

MANN, F. C. and J. L. BOLLMAN. Studies on the physiology of the liver. XXIV.

The effect of insulin on the blood sugar following total removal of the pancreas and liver, 1933, 103: 45.

The relation of the liver to the utilization of levulose, 1930, 93: 671.

MANN, F. C. and S. G. MAJOR. Observations on carbohydrate metabolism in the dehepatized animal, 1931, 97: 543.

MANN, F. C. See Biebl, Essex and Mann, 1932, 100: 167.

See Bollman and Mann, 1930, 92: 92.

See Bollman and Mann, 1931, 96: 683.

See Bollman and Mann, 1932, 101: 12.

See Bollman and Mann, 1933, 104: 242.

See Bollman and Mann, 1934, 107: 183.

See Bollman and Mann, 1936, 116: 214.

See Bollman, Mann and Power, 1935, 111: 483.

See Essex, Herrick, Baldes and Mann, 1935, 113: 39.

See Essex, Herrick, Baldes and Mann, 1936, 116: 43.

See Essex, Herrick, Baldes and Mann, 1936, 117: 271.

See Essex, Herrick, Baldes and Mann, 1937, 119: 303.

See Essex, Herrick, Mann and Baldes, 1933, 105: 31.

See Essex, Herrick, Mann and Baldes, 1934, 109: 33.

See Essex, Markowitz and Mann, 1930, 94: 209.

See Essex, Markowitz and Mann, 1931, 98: 18.

See Herrick, Essex, Baldes and Mann, 1935, 113: 61.

See HERRICK, ESSEX, BALDES and MANN, 1936, 116: 74.

G HERRICK, ESSEX, DALDES and MANN, 1990, 110: 74

See Herrick, Essex, Mann and Baldes, 1933, 105: 434. See Herrick, Essex, Mann and Baldes, 1934, 108: 621.

See Herrick, Mann, Essex and Baldes, 1934, 109: 52.

See Higgins, Deissler and Mann, 1935, 112: 461.

See MacPherson, Essex and Mann, 1932, 99: 429.

See Major and Mann, 1932, 101: 462.

See Major and Mann, 1932, 102: 409.

See Markowitz, Essex and Mann, 1931, 97: 22, 180.

See Markowitz and Mann, 1930, 93: 521.

See Markowitz and Mann, 1931, 96: 709.

See Mason and Mann, 1931, 98: 181.

See Mason, Markowitz and Mann, 1930, 94: 125.

See Pollack, Millet, Essex, Mann and Bollman, 1934, 110: 117.

See Priestley, Markowitz and Mann, 1931, 96: 696.

MANN, F. C.

See PRIESTLEY, MARKOWITZ and MANN, 1931, 98: 357.

See Soskin, Essex, Herrick and Mann, 1937, 118: 328.

See Soskin, Essex, Herrick and Mann, 1937, 119: 407.

See Steggerda, Essex and Mann, 1935, 112: 70.

See THORP, ESSEX and MANN, 1933, 105: 389.

See WILHELMJ, BOLLMAN and MANN, 1930, 93: 698.

See WILHELMJ, BOLLMAN and MANN, 1931, 98: 1.

See WILHELMJ and MANN, 1930, 93: 69, 258.

See WITTING, MARKOWITZ and MANN, 1930, 94: 35.

MANVILLE, I. A. The production of gastric ulcers by dietary means, 1933, 105: 70.

MANVILLE, I. A. and E. B. CHASE. The influence of nutritionally produced

anemia on the ability of experimental animals to withstand low temperatures, 1937, 118: 549.

MANVILLE, I. A. and J. W. GRONDAHL. The effect of brewer's yeast on blood production, 1936, 116: 626.

MANVILLE, I. A. and R. W. LLOYD. The hydrogen ion concentration of the gastric juice of fetal and newborn white rats, 1932, 100: 394.

MANWELL, E. J. See Taylor, Manwell, Robscheit-Robbins and Whipple, 1930, 92: 408.

MARBLE, A., M. E. FIELD, C. K. DRINKER and R. M. SMITH. The permeability of the blood capillaries to lipoids, 1934, 109: 467.

MARCELLUS, F. S. See MARTIN and MARCELLUS, 1937, 119: 373.

MARESH, F. Thermo-electric temperature studies in abdominal viscera of normal rabbits, 1932, 101: 72.

Thermoelectric temperature studies in visceral organs, 1931, 97: 544.

See Eyster, Maresh and Krasno, 1933, 105: 33.

See Eyster, Maresh and Krasno, 1933, 106: 574.

See Eyster, Maresh and Krasno, 1934, 109: 34.

See Eyster, Maresh and Krasno, 1934, 110: 422.

See Eyster, Maresh and Krasno, 1935, 111: 641.

See Martin and Maresh, 1932, 101: 74.

See Martin and Maresh, 1933, 105: 273.

MARGARIA, R. and H. T. EDWARDS. The removal of lactic acid from the body during recovery from muscular exercise, 1934, 107: 681.

The sources of energy in muscular work performed in anaerobic conditions, 1934, 108: 341.

MARGARIA, R., H. T. EDWARDS and D. B. DILL. The possible mechanisms of contracting and paying the oxygen debt and the rôle of lactic acid in muscular contraction, 1933, 106: 689.

MARGARIA, R. See Bronk, Ferguson, Margaria and Solandt, 1936, 117: 237. See Edwards, Margaria and Dill, 1934, 108: 203.

See Graham and Margaria, 1935, 113: 299.

MARGOLIES, A. See STARR, DONAL, MARGOLIES, SHAW, COLLINS and GAMBLE, 1934, 109: 101.

MARGUTTI, M. See Olmsted, Margutti and Yanagisawa, 1936, 116: 245.

MARINE, D. and S. H. ROSEN. The effect of the thyrotropic hormone on autoand homeotransplants of the thyroid and its bearing on the question of secretory nerves, 1934, 107: 677.

MARINE, D. See Rosen and Marine, 1937, 120: 121.

MARKEE, J. E. An analysis of the rhythmic vascular changes in the uterus of the rabbit, 1932, 100: 374.

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MARKEE, J. E.

Rhythmic vascular uterine changes, 1932, 100: 32.

See Hinsey and Markee, 1933, 106: 48.

MARKOWITZ, C. Response of explanted embryonic cardiac tissue to epinephrine and acetylcholine, 1931, 97: 271.

MARKOWITZ, C. and F. C. MANN. Studies on the physiology of the liver. XXI.
The rôle of the liver in the formation of lymph, 1931, 96: 709.

The rôle of the lung in the metabolism of fat, 1930, 93: 521.

MARKOWITZ, C. and W. M. YATER. Response of explanted cardiac muscle to thyroxine, 1932, 100: 162.

MARKOWITZ, J. and H. E. ESSEX. Observations on the preparation and activities of a visceral organism, 1930, 92: 205.

MARKOWITZ, J., H. E. ESSEX and F. C. MANN. Studies on immunity to rattle-snake venom (crotalin), 1931, 97: 180.

The physiologic action of rattlesnake venom (crotalin). IX. Activity of protein fractions of crotalin, 1931, 97: 22.

MARKOWITZ, J., W. M. YATER and W. H. BURROWS. The post-operative course of dogs dehepatized by a single one-stage method, 1932, 101: 73.*

MARKOWITZ, J. See Baldes, Essex and Markowitz, 1931, 97: 26.

See Binger, Gaarde and Markowitz, 1931, 96: 647.

See Crocker and Markowitz, 1936, 116: 33.

See Essex and Markowitz, 1930, 92: 317, 329, 335, 342, 345, 695, 698, 705.

See Essex, Markowitz and Mann, 1930, 94: 209.

See Essex, Markowitz and Mann, 1931, 98: 18.

See Learmonth and Markowitz, 1930, 94: 501.

See Mason, Markowitz and Mann, 1930, 94: 125.

See ORT and MARKOWITZ, 1930, 94: 60.

See ORT and MARKOWITZ, 1931, 96: 541.

See ORT, POWER and MARKOWITZ, 1931, 98: 163.

See Priestley, Markowitz and Mann, 1931, 96: 696.

See Priestley, Markowitz and Mann, 1931, 98: 357.

See Waters and Markowitz, 1935, 113: 136.

See WITTING, MARKOWITZ and MANN, 1930, 94: 35.

MARONEY, W. and D. SHEEHAN. The effect of total thyroidectomy upon experimental diabetes insipidus in dogs, 1935, 112: 250.

MARQUESS, M. J. See Pankratz and Marquess, 1937, 119: 382.

MARQUIS, E. See CHAMBERS and MARQUIS, 1932, 101: 18.

MARRAZZI, A. S. On the emptying of the gall bladder, 1932, 101: 74.

On the emptying of the gall bladder, 1932, 102: 293.

MARSH, B. S. See FENN, COBB, HEGNAUER and MARSH, 1934, 110: 74. See FENN, COBB and MARSH, 1934, 110: 261.

MARSH, G. Bioelectric potentials and velocity of cell oxidation, 1934, 109: 71.

MARSH, J. P. See Harrison, Harrison and Marsh, 1932, 100: 417.

MARSH, M. E. The effect of certain metabolic products on tissue metabolism at normal and febrile temperatures, 1934, 109: 72.

The effect of febrile temperature on tissue metabolism, 1933, 105: 70.

Tissue metabolism of warm-blooded animals at normal and at febrile temperatures, 1934, 109: 502.

Respiratory metabolism and pulmonary ventilation in the tuberculous subject, 1932, 101: 73.

MARSH, M. E.

See Strain and Marsh, 1935, 113: 127.

See STRAIN and MARSH, 1936, 115: 82.

MARSHALL, C. The cortico-fugal pathways mediating the "Berührungsreflexe" of Munk and the contact placing reactions of Rademaker, 1934, 109: 178.

MARSHALL, E. K., JR. A comparison of the function of the glomerular and aglomerular kidney, 1930, 94: 1.

The secretion of phenol red by the mammalian kidney, 1931, 99: 77.

MARSHALL, H. T. and B. F. AYDELOTTE. The redistribution of water in some toxic and neurogenic fevers, 1931, 97: 544.

MARSHALL, H. T., B. F. AYDELOTTE and H. G. BARBOUR. Heat regulation and water exchange. XIII. Insensible weight loss and liver hydration in the onset of cocaine fever, 1931, 98: 615.

MARSHALL, L. H. Antianemic treatment in experimental polycythemia, 1935, 114: 194.

MARSHALL, W. H. Observations on blood pressure responses to electrical stimulation of the central end of the vagus, 1935, 113: 95.

MARSHALL, W. H. and E. C. ALBRITTON. A sensitive device for measuring insensible water loss, 1935, 113: 95.

MARSHALL, W. H. and R. W. GERARD. Nerve impulse velocity and fiber diameter, 1933, 104: 586.

MARSHALL, W. H., C. N. WOOLSEY and P. BARD. Representation of tactile sensibility in the monkey's cortex as indicated by cortical potentials, 1937, 119: 372.

MARSHALL, W. H. See Albritton, Albritton and Marshall, 1935, 113: 2. See Gerard and Marshall, 1932, 101: 39.

See Gerard and Marshall, 1933, 104: 575.

See Gerard, Marshall and Saul, 1934, 109: 38.

MARTIN, C. See Paul, Clark and Martin, 1933, 105: 79.

MARTIN, C. L. See Rogers and Martin, 1930, 93: 219, 684.
MARTIN, E. G., J. FIELD, II and V. E. HALL. A technique for obtaining and recording isometric contractions of mammalian skeletal muscles in situ, 1932,

102: 476.
Factors affecting the distribution of lactates between blood and muscles, 1930, 93: 672.

The activity metabolism of mammalian skeletal muscle in situ, 1932, 102: 481.

MARTIN, E. G., J. FIELD, 2D, V. E. HALL and S. M. FIELD. The activity metabolism of a single muscle in situ, 1931, 97: 545.

MARTIN, E. G., E. C. WOOLLEY and M. MILLER. Capillary counts in resting and active muscle, 1932, 100: 407.

MARTIN, J. H. See Buckner, Insko and Martin, 1932, 102: 271.

See Buckner, Insko and Martin, 1933, 103: 647. See Buckner, Martin and Hull, 1930, 93: 86.

See Buckner, Martin and Insko, 1930, 94: 692.

MARTIN, S. J. The effect of complete suprarenalectomy on the oestrual cycle of the white rat with reference to suprarenal-pituitary relationship, 1932, 100: 180.

MARTIN, S. J. and R. L. KROC. Effect of cortical extracts on the oestrual cycle of completely suprarenalectomized rats, 1933, 105: 71.

MARTIN, S. J. and F. S. MARCELLUS. Plethysmographic studies with special reference to waves of respiration, 1937, 119: 373.

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MARTIN, S. J. and F. MARESH. Temperature studies in normal and suprarenalectomized rats, 1932, 101: 74.

Temperature studies in normal and suprarenalectomized rats, 1933, 105: 273.

MARTIN, S. J. See KROC and MARTIN, 1934, 108: 438.

MARTIN, W. F. See BOLDYREFF, BYLAND and MARTIN, 1936, 116: 13.

MARTING, F. L. See Halpert, Thompson and Marting, 1935, 111:31.

MARX, H. Diuresis by conditioned reflex, 1931, 96: 356.

MASSERMAN, J. H. The relationship of the bromide content of the lumbar fluid to that of the cisternal fluid after the Walter bromide test, 1934, 109: 193.

MASKIN, M. See Necheles, Levitsky, Kohn and Maskin, 1936, 116: 112. See Necheles, Levitsky, Kohn, Maskin and Frank, 1936, 116: 330.

MASON, E. C. and P. HITCHCOCK. Unusual kidney volume response to epinephrine, 1937, 119: 374.

MASON, E. C., H. A. SHOEMAKER and P. PAXTON. A study of the relative rate of absorption from normal and burned tissue, 1935, 113: 95.

MASON, E. C. See HARRISON and MASON, 1936, 116: 71.

MASON, E. D. and F. G. BENEDICT. The effect of sleep on human basal metabolism, with particular reference to South Indian women, 1934, 108: 377.

MASON, E. W. See Jacobs and Mason, 1936, 116: 376.

MASON, J. B. and F. C. MANN. The effect of hemoglobin on volume of the kidney, 1931, 98: 181.

MASON, J. B., J. MARKOWITZ and F. C. MANN. A plethysmographic study of the thyroid gland of the dog, 1930, 94: 125.

MASON, M. F., A. BLALOCK and T. R. HARRISON. The direct determination of the renal blood flow and renal oxygen consumption of the unanesthetized dog, 1937, 118: 667.

MASON, M. F. See Blalock and Mason, 1936, 117: 328.

MASON, P. See Pollack, Flock, Mason, Essex and Bollman, 1934, 110: 102.

MAST, L. R. See Mast, Pace and Mast, 1936, 116: 107.

MAST, S. O. and D. M. PACE. The effect of silicon on growth and respiration in Chilomonas paramecium, 1936, 116: 108.

The function of sulfur in various physiological processes in the flagellate, Chilomonas paramecium, 1935, 113: 96.

Synthesis of carbohydrates, lipids and proteins from inorganic salts, carbon dioxide and water in the absence of chlorophyl and light, 1932, 101: 75.

MAST, S. O., D. M. PACE and L. R. MAST. The effect of sulfur on rate of respiration and on the respiratory quotient in Chilomonas paramecium, 1936, 116: 107.

MATHER, V. The question of plurisegmental innervation of certain muscles in the frog, 1930, 94: 604.

MATHES, M. E. See CHAIKOFF, REICHERT, LARSON and MATHES, 1935, 112: 493. See CHAIKOFF, REICHTER, READ and MATHES, 1935, 113: 306.

MATHEWS, T. J. See HERRIN, MEEK and MATHEWS, 1933, 105: 49.

MATHIEU, F. and B. O. BARNES. Fate of the thyroid hormone in experimental hyperthyroidism, 1932, 101: 75.

The effects of theelin and theeol in latent tetany, 1933, 105: 172.

MATSON, J. R. and F. A. HITCHCOCK. Basal metabolism in old age, 1934, 110: 329.

MATSON, J. R. See HITCHCOCK and MATSON, 1933, 105: 52.

MATTHEWS, H. See Rowe, Gallivan and Matthews, 1930, 95: 592. See Rowe, Gallivan and Matthews, 1931, 96: 94, 101.

MATTHEWS, W. B. See DRAGSTEDT and MATTHEWS, 1933, 105: 29.

MATTHIEU, J. The site of formation of bilirubin, 1931, 98: 262.

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MAUGHAN, G. H. Hemoglobin studies in chickens, 1935, 113: 96.

The effects of thymus removal on development, calcium metabolism and quality

of "egg envelope" in chickens, 1937, 119: 374.

MAVOR, J. W. The control of body temperature in the rat in a high frequency

electrostatic field, 1932, 101: 75.

MAX, L. W. The time relations of the electrical and mechanical response of heart

muscle, 1931, 98: 318.

MAXWELL, L. C. The quantitative and qualitative ovarian response to distributed dosage with gonadotropic extracts, 1934, 110: 458.

MAXWELL, L. C. and F. BISCHOFF. Augmentation of the physiologic response to insulin, 1935. 112: 172.

MAXFIELD, M. E. See BAZETT, SCOTT, MAXFIELD and BLITHE, 1935, 113: 9.

See Bazett, Scott, Maxfield and Blithe, 1936, 116: 9, 551.

See BAZETT, SCOTT, MAXFIELD and BLITHE, 1937, 119: 93.

See Scott, Bazett, Maxfield and Blithe, 1935, 113: 118.

MAYER, D. T. The stomach contents of suckling rats, 1933, 105: 71.

MAYERSON, H. S. The effect of light and of darkness on the thyroid gland of the rat, 1935, 113: 659.

MAYERSON, H. S. and H. LAURENS. The antirachitic efficiency of New Orleans sunshine, 1932, 102: 422.

MAYERSON, H. S. See Johnson, Pollock, Mayerson and Laurens, 1936, 114: 594.

See Sweeney and Mayerson, 1936, 116: 153.

See Sweeney and Mayerson, 1937, 119: 12.

See Sweeney and Mayerson, 1937, 120: 329.

MAYKA, J. See Maison, Highstone, Mayka, Burgert and Murray, 1933, 105: 69.
MAYNE, W. and L. N. KATZ. Observations on the path taken by the pain fibers from the heart, 1936, 114: 688.

MAYNE, W. See Jochim, Katz and Mayne, 1934, 109: 59. See Jochim, Katz and Mayne, 1935, 111: 177.

See Katz, Jochim, Korey and Mayne, 1933, 105: 59.

MAZUR, A. See HARROW, CHAMELIN and MAZUR, 1934, 109: 436.

Mcallister, F. F. The effect of ether anesthesia upon the plasma volume of dogs, 1937, 119: 363.

McBEAN, J. B. See Still, McBean and Ries, 1931, 97: 565.

McBEAN, J. W. See Still, McBean and Ries, 1931, 99: 94.

McCANN, W. S. See HURTADO, KALTREIDER and McCANN, 1934, 109: 626.

McCarroll, H. R. See Huggins, Haymond and McCarroll, 1934, 108: 192. See Huggins, McCarroll and Haymond, 1934, 109: 56.

McCarthy, F. See Cohn, Levinson and McCarthy, 1933, 103: 613.

McCARTHY, H. H. See WILHELMJ, McCARTHY and HILL, 1936, 117: 533.

See Wilhelmj, McCarthy and Hill, 1937, 118: 766.

See WILHELMJ, McCarthy and Hill, 1937, 120: 619.

See WILHELMJ, McCarthy, O'Brien and Hill, 1937, 118: 505.

See Wilhelms, O'Brien, McCarthy and Hill, 1936, 117: 79.

McCAUGHAN, J. M. Experimental studies on the external secretion of the pancreas with special reference to the effect of its complete loss by permanent pancreatic fistula. I. The coincident changes in the chemistry of the blood. II. The mechanism of death, 1931, 97: 459.

McCLELLAN, W. S. See Spencer and McClellan, 1932, 101: 95.

McCLENDON, J. F. On the relation of blood sugar to blood volume, and earbohydrate to water retention, 1931, 98: 216.

Polarization-capacity as measured with a Wheatstone bridge with sine-wave alternating currents of high and low frequency, 1929, 91: 83.

McCLENDON, J. F. and A. HEMINGWAY. The psychogalvanic reflex as related to the polarization-capacity of the skin, 1930, 94: 77.

McCLENDON, J. F., L. MYRICK, C. CONKLIN and I. H. WILSON. Ovarian hormone and metabolism, 1931, 97: 82.

McCLENDON, J. F. See HEMINGWAY and McCLENDON, 1932, 102: 56.

McClure, C. W., M. E. Huntsinger and A. T. Fernald. Effects of administration of pure foodstuffs and inorganic substances on external secretory activities of the liver, pancreas and stomach, 1934, 107: 94.

The fatty acids of human duodenal bile, their quantitative separation, estimation and the effect of foodstuffs on their secretion, 1934, 107: 1.

McClure, G. G. See Stewart, McClure and Stewart, 1931, 97: 676.

McClure, G. S. An accessory regulation of acid-base equilibrium and pulmonary ventilation by virtue of the lactic acid changes in the liver, 1932, 99: 365.
See Hall and McClure, 1936, 115: 670.

McCOLLUM, E. V. See KEHAR and McCollum, 1934, 110: 485.

See Klein, Orent and McCollum, 1935, 112: 256.

See KRUSE, SCHMIDT and McCollum, 1933, 105: 635.

See Orent-Kelles, Robinson and McCollum, 1937, 119: 651.

See Orent, Kruse and McCollum, 1932, 101: 454.

McCOOL, S. G. See Cantarow, Stewart and McCool, 1935, 113: 25.

McCORD, W. M. The effect of 2-4-dinitrophenol on the oxygen uptake of kidney and liver tissue of the rat, 1934, 109: 232.

McCOUCH, G. P. Flexion reflex recorded with muscles in situ, 1931, 97: 545.
Note upon crossed reflexes in the acutely spinal cat, 1936, 115: 78.

McCOUCH, G. P. and F. H. ADLER. Extraocular reflexes, 1932, 100: 78.

McCOUCH, G. P., W. J. SNAPE and W. B. STEWART. Note on reflex thresholds in the cat during spinal shock, 1935, 111: 263.

McCOUCH, G. P. See Hughes, McCouch, Snape and Stewart, 1935, 113: 68. See Hughes, McCouch and Stewart, 1936, 116: 83. See Hughes, McCouch and Stewart, 1937, 118: 411.

McCRACKEN, E. C. See Sheard, McCracken and Essex, 1934, 109: 96.
See Sheard, McCracken and Essex, 1936, 116: 142.

McCREA, F. D. Rhythmical arterial expansion as a factor in the control of heart rate, 1932, 101: 76.

McCREA, F. D. See Eadle and McCREA, 1934, 109: 197.

McCREA, F. D. and C. J. WIGGERS. Rhythmic arterial expansion as a factor in the control of heart rate, 1933, 103: 417.

McCullagh, D. R. See Cutuly, McCullagh and Cutuly, 1937, 119: 121. See Walsh, Cuyler and McCullagh, 1934, 107: 508.

McCULLOCH, W. S. On the nature and distribution of factors for facilitation and extinction in the central nervous system, 1937, 119: 363.

McCULLOCH, W. S. and J. G. DUSSER DE BARENNE. Action potentials of the cerebral cortex and spinal cord before and after cortical stimulation, 1936, 116: 99.

Extinction: local stimulatory inactivation within the motor cortex, 1935, 113: 97.

McCulloch, W. S. See Dusser de Barenne and McCulloch, 1936, 114: 692. See Dusser de Barenne and McCulloch, 1937, 118: 510. McCULLOCH, W. S.

See Lane, McCulloch, Prescott and Dusser de Barenne, 1935, 113: 85. See Pike, McCulloch and Chappell, 1930, 93: 678.

McDONALD, A. C. See McDonald and McDonald, 1935, 111: 51.

McDONALD, C. H. and A. C. McDONALD. The rate of oxygen consumption of the isolated terrapin heart when perfused with various solutions, 1935, 111: 51.

McDONALD, C. H., W. L. SHEPEARD, M. F. GREEN and A. F. DE GROAT. Response of the hyperthyroid heart to epinephrine, 1935, 112: 227.

McDONALD, C. H. See BAETJER and McDONALD, 1932, 99: 666.

See Green, De Groat and McDonald, 1935, 110: 513.

McDONALD, F. G. and W. C. RUSSELL. The effect of calcium citrate and carbonate upon the evacuation of the protein from the stomach of the albino rat and the pH of the contents, 1931, 97: 386.

McDONALD, W. T. See Lashley, McDonald and Peters, 1933, 104: 51.

McEACHERN, D. and E. C. ANDRUS. Comparative sensitivity to oxygenwant and to sodium lactate of the hearts of normal and thyroxinized animals, 1930, 93: 673.

McEUEN, C. S. See Collip, McEuen and Selve, 1936, 116: 29.

McEWEN, E. G. See Voegtlin, McEwen and Ivy, 1933, 103: 121.

McGINTY, D. A. Lactic acid and the coronary circulation, 1931, 97: 546.

Studies on the coronary circulation. I. Absorption of lactic acid by the heart muscle, 1931, 98: 244.

The regulation of respiration. XXXIV. The carbon dioxide content of the intact brain of the frog in relation to changes of oxidations, 1930, 93: 528.

McGINTY, D. A. and A. T. MILLER, JR. Oxygen, glucose and lactic acid absorption by mammalian heart, 1932, 101: 76.

Studies on the coronary circulation. II. The absorption of lactic acid and glucose and the gaseous exchange of heart muscle, 1933, 103: 712.

McGLONE, B. The relation of body temperature to environmental factors, 1930, 93: 673.

McGLONE, B., S. GOLDSCHMIDT and J. S. DONAL, JR. Oxygen absorption through the skin, 1934, 109: 72.

McGLONE, B. See Bazett, Goldschmidt, McGlone and Sribyatta, 1937, 119: 268.

See BAZETT and McGLONE, 1930, 93: 632.

See BAZETT and McGLONE, 1931, 97: 504.

See Goldschmidt and McGlone, 1934, 109: 42.

McGUIGAN, H. A. and J. A. HIGGINS. Changes in the circulatory effect of potassium salts due to epinephrine (adrenalin), 1935, 114: 207.

McGUINNESS, J. S. See Montgomery, Moore and McGuinness, 1933, 105: 73.

See Montgomery, Moore and McGuinness, 1934, 108: 486.

McHARGUE, J. S. and W. R. ROY. Effect of ultraviolet irradiation on the magnesium content of rats receiving reflected sunlight and a uniform stock ration, 1930, 92: 651.

The effect of a diet of polished rice on the mineral content of the carcasses of pigeons, 1931, 99: 221.

McHENRY, E. W. See Best and McHenry, 1930, 93: 633.

McINTIRE, J. M. and A. H. TURNER. Venous pressures and posture in normal young women, 1934, 109: 72.

McINTYRE, A. R. An amplifier for minute direct currents, 1935, 113: 98.

The effects of 1-m-hydroxyphenylethanolmethylamine hydrochloride on the bronchial musculature of rabbits and guinea pigs, 1936, 116: 99.

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McINTYRE, A. R.

The effects of posterior-lobe pituitary preparations upon the concentrations of copper-reducing substances in the serum and urine of dogs, 1934, 109: 73.

The effects upon the pH of dog serum and urine of the alpha and beta fractions of posterior lobe pituitary extract, 1933, 106: 505.

McINTYRE, A. R. and J. C. BURKE. The rate of growth of albino rats with and without daily injections of insulin, 1937, 119: 365.

The tolerance of the albino rat for insulin, 1937, 119: 364.

Vitamin B-deficient diets and insulin tolerance in the albino rat, 1937, 119: 364.

McINTYRE, M. The effects of thyroid feeding on the heart rate in normal dogs and in dogs with completely denervated hearts, 1931, 99: 261.

See Gerard and McIntyre, 1933, 103: 225.

McJUNKIN, F. A. See TWEEDY, TEMPLETON and McJUNKIN, 1936, 115: 514.

McKEOWN, T. See Selye and McKeown, 1934, 109: 96.

See Selye, McKeown and Harlow, 1935, 113: 119.

McKHANN, C. F. See Gamble, McKhann, Butler and Tuthill, 1934, 109: 139. McLEAN, F. C., B. O. BARNES and A. B. HASTINGS. The relation of the parathyroid hormone to the state of calcium in the blood, 1935, 113: 141.

McLEAN, F. C., E. B. BAY and A. B. HASTINGS. Electrical changes in the isolated heart of the rabbit following changes in the potassium content of the perfusing fluid, 1933, 105: 72.

McLEAN, R. See FRIEDGOOD and McLEAN, 1937, 118: 588.

McManus, M. See Rowe, McManus and Plummer, 1933, 105: 85. See Rowe, Plummer and McManus, 1932, 101: 90.

McMANUS, M. A. See Rowe, McManus and Riley, 1934, 109: 90.

McMILLIN, E. See Smith, McMillin and Williams, 1933, 105: 88.

McNALLY, W. J. and J. TAIT. Ablatory experiments exhibiting the relation between the utricular macular of the vertical semicircular canals of the frog, 1936, 116: 100.

McNELLY, W. C. Some effects of training on the respiratory response to exercise, 1936, 116: 100.

See HITCHCOCK and McNelly, 1930, 93: 660.

McPhall, M. K. See Collip, Thomson, Browne, McPhall and Williamson, 1931, 97: 513.

McQUEEN-WILLIAMS, M. See REESE and McQUEEN-WILLIAMS, 1932, 101: 239.

McSHAN, W. H. and R. K. MEYER. Heme containing fractions of blood as related to the augmentation of pituitary gonadotropic extracts, 1937, 119: 574.

MEAD, S. See DILL, EDWARDS and MEAD, 1935, 111: 21.

MEDES, G. and C. J. BELLIS. The effect of altering renal blood pressure on glomerular filtration, 1934, 107: 227.

MEDES, G. See Sterner and Medes, 1936, 117: 92.

MEEK, W. J. Formation of methemoglobin from rabbit's blood, 1930, 93: 674.

MEEK, W. J. and R. C. HERRIN. The effect of vagotomy on gastric emptying time, 1934, 109: 221.

MEEK, W. J. and P. P. VOLPITTO. Effects of cyclopropane anesthesia on the heart, 1936, 116: 109.

MEEK, W. J. See Austin and Meek, 1930, 93: 629.

See Bunting, Meek and Maaske, 1935, 114: 100.

See Eyster and Meek, 1930, 95: 294.

See HANEY, BORMAN and MEEK, 1933, 106: 64.

See HERRIN and MEEK, 1931, 97: 57, 532.

See HERRIN and MEEK, 1932, 101: 55.

MEEK, W. J.

See HERRIN, MEEK and MATTHEWS, 1933, 105: 49.

See LALICH, MEEK and HERRIN, 1935, 113: 84.

See Lalich, MEEK and HERRIN, 1936, 115: 410.

See Lalich, Youmans and Meek, 1937, 120: 554.

See Pommerenke, Haney and Meek, 1930, 93: 249.

See Youmans and Meek, 1937, 119: 425.

See YOUMANS and MEEK, 1937, 120: 750.

MELNICK, D. and G. R. COWGILL. A study of hemolysis in vivo by the application of the benzidine micro-colorimetric method to the determination of free hemoglobin in plasma, 1937, 119: 70.

MELNICK, D., G. R. COWGILL and E. BURACK. The influence of diet upon the regeneration of serum protein, 1936, 116: 109.

MENDEL, L. B. See Bing and Mendel, 1931, 98: 169.

See Calvin, Smith and Mendel, 1933, 105: 16, 135.

See REED, MENDEL and VICKERY, 1932, 102: 285.

See Rose, Stucky and Mendel, 1930, 91: 520.

See Rose, Stucky, Mendel and Cowgill, 1931, 96: 132.

MENDELSON, E. S. Measurement of the superficial temperature gradient in man, 1936, 114: 642.

MENDLOWITZ, M. and G. SCHAUER. Paradoxical effect of intravenously injected sodium cyanide in small doses on heart rate and blood pressure in dogs, 1937, 119: 749.

MENKIN, V. The cells of an inflammatory exudate in relation to its hydrogen ion concentration, 1934, 109: 73.

MESCHAN, I. See Quigley and Meschan, 1937, 119: 386.

MESSER, A. C. See Behnke, Shaw, Messer, Thomson and Motley, 1936, 114: 526.

See Behnke, Shaw, Shilling, Thomson and Messer, 1934, 107: 13.

See Shaw, Behnke and Messer, 1934, 108: 652.

See Shaw, Behnke, Messer, Thomson and Motley, 1935, 112: 545.

See Shaw and Messer, 1930, 93: 422.

See Shaw and Messer, 1930, 95: 13.

See Shaw and Messer, 1931, 98: 93.

See Shaw and Messer, 1932, 100: 122.

See Shilling, Thomson, Behnke, Shaw and Messer, 1934, 107: 29.

METCALF, R. P. See Stevens and Metcalf, 1933, 105: 91.

See Stevens and Metcalf, 1934, 107: 568.

METTLER, F. A. See Ades, Mettler and Culler, 1937, 119: 257.

See Brogden, Girden, Mettler and Culler, 1936, 116: 252.

See Culler, Willmann and Mettler, 1937, 119: 292.

MEYER, J., J. S. GOLDEN, N. STEINER and H. NECHELES. The ptyalin content of human saliva in old age, 1937, 119: 600.

MEYER, J. See NECHELES and MEYER, 1935, 110: 686.

MEYER, K. See Evans, Meyer and Simpson, 1932, 100: 141.

See Reichert, Pencharz, Simpson, Meyer and Evans. 1932, 100: 157.

MEYER, O. O. The effect of reduced atmospheric pressure upon the leucocyte count, 1935, 113: 98.

MEYER, O. O., M. H. SEEVERS and S. R. BEATTY. The effect of reduced atmospheric pressure on the leukocyte count, 1935, 113: 166.

MEYER, R. K. and R. HERTZ. The effect of oestrone on the secretion of the gonadotropic complex as evidenced in parabiotic rats, 1937, 120: 232.

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MEYER, R. K. See Allen and Meyer, 1933, 106: 55.

See Hisaw, Meyer, Leonard and Fevold, 1930, 93: 659. See McShan and Meyer, 1937, 119: 574.

MICHAELS, J. J. See SEARLE and MICHAELS, 1933, 103: 455.

MICHEL, F. Y. Arbutin diabetes, 1937, 119: 374.

MILES, M. M. See HELLEBRANDT and MILES, 1932, 102: 258.

MILES, W. R. A v-phone for examining auditory impairment, 1934, 109: 74.

MILES, W. R. and K. T. BEHANAN. A metabolic study of three unusual learned breathing patterns practiced in the cult of Yoga, 1934, 109: 74.

MILHORAT, A. T. Effect of glycocoll and ephedrine in myasthenia gravis, 1934, 109: 75.

MILLER, A. R. A failure to confirm Pavlov's hypothesis of external inhibition, 1934, 108: 608.

MILLER, A. T., JR. See McGinty and Miller, 1932, 101: 76. See McGinty and Miller, 1933, 103: 712.

MILLER, B. F. See VAN SLYKE, HILL and MILLER, 1935, 113: 611, 629.

MILLER, C. D. See HAMRE and MILLER, 1935, 111: 578.

MILLER, D. G. See Wells, Youmans and Miller, 1933, 105: 97.

MILLER, D. G., JR. See WELLS, MILLER and YOUMANS, 1937, 119: 419.

MILLER, D. S. See STECK, MILLER and REED, 1934, 110: 1.

MILLER, E. G., JR. See Cockrill, Miller and Kurzrok, 1935, 112: 577.

MILLER, F. R. Reflex reversal in the triceps extensor preparation of the forelimb, 1933, 105: 73.

MILLER, F. W. See Evans and MILLER, 1936, 116: 44.

MILLER, L. See MITCHELL and MILLER, 1931, 98: 311.

MILLER, M. See Martin, Woolley and Miller, 1932, 100: 407.

MILLER, M. L. See BEUTNER, MILLER and LOEHR, 1933, 105: 6.

See Fitzhugh, Miller, Taylor and Aub, 1931, 97: 142. See Hellebrandt, Walters and Miller, 1936, 116: 168.

MILLER, N. E. See Mowrer, Ruch and Miller, 1936, 114: 423.

MILLER, R. F. See COLE and MILLER, 1933, 104: 165.

MILLET, R. F. See Pollack, Millet, Essex, Mann and Bollman, 1934, 110: 117.

MILLIN, F. J. and A. B. LUCKHARDT. Use of the von Frey hairs for studying cutaneous sensitivity, 1934, 109: 78.

MILLS, C. A. Do blood platelets, plasma, and tissues yield thrombin or tissue fibringen, 1930, 95: 1.

See Foulger and Mills, 1930, 94: 51.

See Foulger and Mills, 1931, 96: 509.

See Ogle and Mills, 1933, 103: 606.

See Ogle and Mills, 1933, 105: 76.

MILLS, D. R. and B. HALPERT. Some phases of liver and gall-bladder function, 1933, 103: 265.

MILLS, L. M. See Holck, Kañan, Mills and Smith, 1937, 119: 338.

MILLS, M. A. See DRAGSTEDT and MILLS, 1937, 119: 713.

MINARD, D. Histamine-like substances in blood following trauma, 1937, 119: 375.
The presence and distribution of histamine-like substances in blood, 1937, 119: 375.

MINOT, A. S. A study of the circulatory failure of guanidine intoxication, 1937, 119: 376.

MINOT, A. S. and J. T. CUTLER. Studies of the response to calcium medication in the hypoglycemia of carbon tetrachloride poisoning, 1930, 93: 674.

MINOT, A. S. See BRYAN, MINOT and CHASTAIN, 1933, 105: 13.

See BRYAN, MINOT and CHASTAIN, 1933, 106: 738.

MIRSKY, I. A. The site and mechanism of the antiketogenic action of insulin, 1936, 116: 322.

The source of blood acetone and the site of the antiketogenic action of insulin, 1936, 116: 110.

The source of the blood acetone resulting from the administration of the ketogenic principle of the anterior hypophysis, 1936, 115: 424.

MIRSKY, I. A. and R. H. BROH-KAHN. The effect of experimental hyperthyroidism on carbohydrate metabolism, 1936, 117: 6.

The influence of dextrose administration on the utilization of β-hydroxybutyric acid by the normal and eviscerated rabbit, 1937, 119: 734.

The influence of increased metabolism on β-hydroxybutyric acid utilization, 1937, 120: 446.

MIRSKY, I. A., J. D. HEIMAN and R. H. BROH-KAHN. The antiketogenic action of glucose in the absence of insulin, 1937, 118: 290.

MIRSKY, I. A., J. D. HEIMAN and S. SWADESH. The nitrogen-sparing action of glucose in normal, phlorhizinized and depancreatized dogs, 1937, 120: 681.

The nitrogen-sparing action of glycose in phlorhizin and pancreatic diabetes, 1937, 119: 376.

MIRSKY, I. A. and S. SOSKIN. The influence of progressively increasing toxemic liver damage upon the dextrose tolerance curve, 1935, 113: 98.

MIRSKY, I. A. See Broh-Kahn and Mirsky, 1937, 119: 278.

See Soskin and Mirsky, 1935, 112: 649.

See Soskin and Mirsky, 1935, 114: 106.

See Soskin, Mirsky, Zimmerman and Crohn, 1935, 113: 124.

See Soskin, Mirsky, Zimmerman and Crohn, 1935, 114: 110.

See Soskin, Mirsky, Zimmerman and Heller, 1936, 114: 648.

See Soskin, Mirsky, Zimmerman and Heller, 1936, 116: 148.

MITCHELL, H. H. An application of the paired feeding method to the quantitative estimation of the relative vitamin B contents of foods and artificial concentrates, 1933, 104: 594.

See Ellis and Mitchell, 1933, 104: 1.

See Garrett and Mitchell, 1933, 104: 608.

MITCHELL, H. S. Factors influencing anemia development in young rats, 1932, 101: 503.

MITCHELL, H. S. and L. MILLER. The effect of age, pregnancy and lactation on the hemoglobin of the albino rat, 1931, 98: 311.

MITCHELL, J. B., JR. See Etteldorf, Mitchell and Amberson, 1937, 120: 451. MOBITZ, W. See Henderson and Mobitz, 1930, 92: 707.

MOEDE, R. B. The influence of iodoacetic acid poisoning upon oxygen consumption of striated muscle, 1933, 103: 94.

The oxygen consumption of resting muscle in relation to previous immersion in Ringer's fluid, 1933, 103: 89.

MOGAN, C. J. and J. E. THOMAS. The effect on the pyloric sphincter of acid in the stomach and in the duodenum, 1931, 97: 546.

MOGAN, C. J. See THOMAS, CRIDER and MOGAN, 1934, 108: 683.

MOISE, T. S. See Francis, Smith and Moise, 1931, 97: 210.

MOLDAVSKY, L. F. and M. B. VISSCHER. An analysis of the factors concerned in the automatic adjustment of the ventricle to increased load. I. A study of the importance of contraction rate and filling pressure in producing alterations in diastolic volume by variations in arterial pressure, 1933, 106: 329.

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MOLDAVSKY, L. F. See GELLHORN and MOLDAVSKY, 1934, 109: 638. See Ingraham, Moldavsky and Gellhorn, 1937, 119: 341.

MOLITOR, H. and M. KNIAZUK. A bloodless method for continuous recording of peripheral circulatory changes, 1936, 116: 111.

MOLITOR, H. and W. L. SAMPSON. The influence of vitamin B₁ on experimental convulsions, 1937, 119: 377.

MONAGHAN, B. See WHITE and MONAGHAN, 1933, 104: 412.

See WHITE and MONAGHAN, 1933, 105: 98.

See WHITE and MONAGHAN, 1933, 106: 16.

See White and Monaghan, 1935, 113: 137.

See WHITE and MONAGHAN, 1936, 115: 31.

See White, Monaghan and Harris, 1934, 109: 109.

See White, Rainey, Monaghan and Harris, 1934, 108: 449.

See WHITE, URBAN and MONAGHAN, 1934, 109: 110.

MONAGHAN, B. R. The rôle of vitamin A in phospholipid metabolism, 1932, 101:77.

MOND, R. and H. NETTER. Regulation of sodium by the muscle, 1932, 101: 77.

MONNIER, A. M. On the relation between the shape of stimulus and the shape

of the nerve action potential, 1930, 93: 675.

MONTGOMERY, H. and J. A. PIERCE. Determination of the pH of glomerular

and tubular fluid in frogs and necturi, 1934, 109: 76.

The site of acidification of the urine within the renal tubule in Amphibia, 1937,

118: 144.

MONTGOMERY, M. F. The influence of atropin and pilocarpin on thirst (voluntary ingestion of water), 1931, 98: 35.

The rôle of the salivary glands in the thirst mechanism, 1931, 96: 221.

MONTGOMERY, M. F. and A. B. LUCKHARDT. Studies on the knee jerk. VIII.

The effects of acutely raised intracranial and intraspinal pressures upon the knee jerk, 1929, 91: 210.

MONTGOMERY, M. F. and J. S. STUART. Studies upon the secretion of oral and pharyngeal mucus, 1936, 115: 497.

MONTGOMERY, M. L. and L. R. DRAGSTEDT. The continuous secretion of pancreatic juice in the dog, 1931, 97: 547.

MONTGOMERY, M. L., J. M. MOORE and J. S. McGUINNESS. Reactive hyperemia: relation of duration of increased blood flow to length of circulatory arrest, 1934, 108: 486.

The volume flow of blood in reactive hyperemia, 1933, 105: 73.

MOORE, A. R. The dependence of cytoplasmic structures in the egg of sea urchin, on the ionic balance of the environment, 1932, 101: 78.

MOORE, C., V. SUNTZEFF and L. LOEB. The specific nature of the inhibition of the coagulating effect exerted by tissue extract on plasma resulting from incubation of tissue extract with blood serum, 1935, 114: 1.

MOORE, C. R. and D. PRICE. Some effects of fresh pituitary homo-implants and of the gonad-stimulating substance from human pregnancy urine on the reproductive tract of the male rat, 1931, 99: 197.

MOORE, C. R. and L. T. SAMUELS. The action of testis hormone in correcting changes induced in the rat prostate and seminal vesicles by vitamine B deficiency or partial inanition, 1931, 96: 278.

MOORE, C. U. and H. B. PLYMATE. Studies in the B vitamins. VI. Further consideration of pyloric obstruction in rats, 1932, 102: 605.

MOORE, C. U., H. B. PLYMATE and B. J. ANDREW. Studies in the B vitamins: III. Evidence of a third vitamin B factor in yeast (B₄) as shown by growth curves and clinical symptoms of first and second litter young of mothers raised on synthetic B₁ and B₂ diets, 1932, 102: 581.

Studies on the B vitamins: V. A study of myelin degeneration in the peripheral nerves of rats as associated with low vitamin B content of diet, 1932, 102:

598.

MOORE, C. U., H. B. PLYMATE, B. J. ANDREW and V. WHITE. Studies in the B vitamins: I. Statistical comparison of small and large litters of rats on a normal stock diet, 1932, 102: 566.

Studies in the B vitamins: II. Statistical comparison of rat litters on normal stock diets with litters on synthetic diets containing varying amounts of the vitamin B complex and combinations of B₁ and B₂, 1932, 102: 573.

MOORE, C. U., H. B. PLYMATE and V. WHITE. Studies in the B vitamins. IV. A report of litters obtained on a diet in which feces were supplied as a sole source of vitamin B, 1932, 102: 593.

MOORE, J. M. See Montgomery, Moore and McGuinness, 1933, 105: 73. See Montgomery, Moore and McGuinness, 1934, 108: 486.

MOORE, J. W. See Hamilton, Moore and Kinsman, 1931, 97: 528.
See Hamilton, Moore, Kinsman and Spurling, 1930, 93: 654.
See Hamilton, Moore, Kinsman and Spurling, 1932, 99: 534.

MOORE, P. See BURGET and MOORE, 1931, 97: 509. See BURGET, MOORE and LLOYD, 1932, 101: 16, 565, 570.

MOORE, P. H. See BURGET, MOORE and LLOYD, 1933, 105: 15, 187.

MOORE, R. E. See Moore and Moore, 1933, 104: 259. See Moore, Moore and Singleton, 1934, 107: 594.

MOORE, R. M. The stimulation of peripheral nerve-elements subserving painsensibility by intra-arterial injections of neutral solutions, 1934, 110: 191.

MOORE, R. M. and W. B. CANNON. The heart rate of unanesthetized normal, vagotomized, and sympathectomized cats as affected by atropine and ergotoxine, 1930, 94: 201.

MOORE, R. M. and M. M. GREENBERG. Acid production in the functioning heart under conditions of ischemia and of congestion, 1937, 118: 217.

MOORE, R. M. and R. E. MOORE. Studies on the pain-sensibility of arteries. I. Some observations on the pain-sensibility of arteries, 1933, 104: 259.

MOORE, R. M., R. E. MOORE and A. O. SINGLETON, JR. Experiments on the chemical stimulation of pain-endings associated with small blood-vessels, 1934, 107: 594.

MOORE, R. M. and E. L. PORTER. Reactions to irritating arterial injections in decerebrate and chronic spinal cats, 1934, 109: 76.

MOORE, R. M. and A. O. SINGLETON, JR. A pseudaffective reflex evoked by injections into the left coronary artery and the peripheral paths of the painfibers which are concerned, 1935, 113: 99.

Studies on the pain-sensibility of arteries. II. Peripheral paths of afferent neurones from the arteries of the extremities and of the abdominal viscera, 1933, 104: 267.

MOORHOUSE, V. H. K. Observations on the spinal integration of standing, 1930, 92:716.

See Code, Dingle and Moorhouse, 1936, 115: 249.

MORAN, C. S. See RIDDLE, BATES, LAHR and MORAN, 1936, 116: 128.

MORGAN, A. B. See Hamilton and Morgan, 1931, 97: 528.
See Hamilton and Morgan, 1932, 99: 526.

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MORGAN, A. F. Effect of diet on response to parathyroid extract and vitamin D.

IV. The effect of diets of normal calcium and phosphorus content in dogs, 1933, 105: 621.

MORGAN, A. F. and J. G. FIELD. Effect of diet on response to parathyroid extract and vitamin D. I. The relation of calcium and phosphorus of the diet to response to parathyroid extract in rats, 1933, 105: 585.

MORGAN, A. F. and E. A. GARRISON. The effect of diet on response to parathyroid extract and vitamin D. II. The effect of high calcium-low phosphorus diets in dogs, 1933, 105: 596.

MORGAN, A. F., E. A. GARRISON and M. J. HILLS. The effect of diet on response to parathyroid extract and vitamin D. III. The effect of low calcium-high phosphorus diets in dogs, 1933, 105: 608.

MORGAN, L. O. and P. P. GOLAND. Demonstration of the accelerator nerve and of postganglionic parasympathetic fibers in the vago-sympathetic trunk of the dog, 1932, 101: 274.

MORGULIS, S. Partitioning of phosphate compounds in blood during glycolysis, 1934, 109: 76.

MORGULIS, S. and S. PINTO. The effect of arsenate on blood glycolysis, 1932, 101: 77.

MORGULIS, S. See Spencer and Morgulis, 1936, 116: 149.

MORISON, R. S. A further study of cardiac reflexes, 1935, 113: 229.

MORISON, R. S. and D. McK. RIOCH. Influence of the forebrain on the reflex responses of the nictitating membrane of the cat, 1936, 116: 111. The influence of the forebrain on an autonomic reflex, 1937, 120: 257.

MORISON, R. S. See Freeman, Morison and Sawyer, 1933, 104: 628.

See Rosenblueth, Lindsley and Morison, 1936, 115: 53.

See Rosenblueth and Morison, 1934, 109: 209.

See Rosenblueth and Morison, 1937, 119: 236.

See Rosenblueth and Morison, 1937, 120: 384.

MORITZ, B. E., JR. See Huddleston, Whitehead and Moritz, 1936, 116: 82.

MORRELL, J. A. See SWINGLE, PARKINS, TAYLOR, HAYS and MORRELL, 1937, 119: 675.

MORRISON, J. L. See Johnston, Morrison and Ravdin, 1931, 97: 535. See Johnston, Ravdin, Austin and Morrison, 1932, 99: 648.

MORRISON, P. J. See RAVDIN, JOHNSTON and MORRISON, 1933, 104: 700.
See RAVDIN, JOHNSTON and MORRISON, 1933, 105: 82.

MORSE, A. H. See VAN WAGENEN and Morse, 1937, 119: 416.

MORSE, M. See Schultz, Hastings and Morse, 1933, 104: 669.

See Schlutz, Hastings and Morse, 1935, 111: 622. See Schlutz, Morse and Hastings, 1935, 113: 595.

MORSE, R. P. See PALITZ and MORSE, 1936, 116: 118.

MORTENSEN, O. A. and L. H. WEED. Absorption of isotonic fluids from the subarachnoid space, 1934, 108: 458.

MORTIMER, B. and A. C. IVY. VII. Studies on the pancreas. An attempt to repeat the Mellanby procedure for the isolation and purification of secretin, 1929, 91: 220.

MOSKOWITZ, S. L. See WILHELMJ and Moskowitz, 1932, 102: 620. See WilhelmJ, Moskowitz and Neigus, 1933, 105: 99.

MOTLEY, E. P. See BEHNKE, FORBES and MOTLEY, 1936, 114: 436.

See Behnke, Johnson, Poppen and Motley, 1935, 110: 565.

See Behnke, Shaw, Messer, Thomson and Motley, 1936, 114: 526.

See Behnke, Thomson and Motley, 1935, 112: 554.

See Shaw, Behnke, Messer, Thomson and Motley, 1935, 112: 545.

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MOTLEY, H. L. See Ellis, Motley and Ellis, 1935, 113: 38.

MOWRER, O. H., T. C. RUCH and N. E. MILLER. The corneo-retinal potential difference as the basis of the galvanometric method of recording eye movements, 1936, 114: 423.

MOYER, C. See GESELL and MOYER, 1934, 109: 39.
See GESELL and MOYER, 1937, 119: 55.

MOYER, C. A. See GESELL and MOYER, 1932, 101: 39, 40, 41.

MRGUDICH, J. N. See CLARK and MRGUDICH, 1934, 108: 74.

MULDER, A. G. A closed circuit artificial respiration apparatus, 1933, 105: 74.
The effect of glycine and alanine upon the oxygen consumption of the heart-lung preparation, 1930, 93: 675.

MULDER, A. G., W. R. AMBERSON, F. R. STEGGERDA and J. FLEXNER. Oxygen consumption with hemoglobin-Ringer, 1933, 105: 74.

MULDER, A. G. See Amberson, Flexner, Pankratz, Steggerda and Mulder, 1933, 105: 2.

See Smith and Mulder, 1936, 115: 507.

See Smith and Mulder, 1936, 116: 145.

See Visscher and Mulder, 1930, 94: 630.

MULIN, F. J. Changes in irritability to auditory stimuli on falling asleep, 1937, 119: 377

MULINOS, M. G. The gastric hunger mechanism. II. The effect of diet, 1930, 93: 676.

The gastric hunger mechanism. IV. The influence of experimental alterations in blood sugar concentration on the gastric hunger contractions, 1933, 104: 371.

See Raiford and Mulinos, 1934, 110: 123, 129.

MULL, J. W. See Banus, Katz and Mull, 1929, 91: 150. See Quigley, Einsel and Mull, 1936, 116: 124.

MULLER, G. L. See Suzman, Muller and Ungley, 1932, 101: 529.

MULLENIX, R. B., C. A. DRAGSTEDT and J. D. BRADLEY. Hemoglobin regeneration in gastrectomized dogs, 1933, 105: 443.

MULLIN, F. J. The effect of alcohol on body temperature and motility during sleep, 1933, 105: 74.

MULLIN, F. J., N. KLEITMAN and N. R. COOPERMAN. Studies on the physiology of sleep. X. The effect of alcohol and caffein on motility and body temperature during sleep, 1933, 106: 478.

MULLIN, F. J., W. M. LEES and A. B. HASTINGS. Neuro-muscular phenomena in response to variation in calcium and potassium concentrations in the cerebro-spinal fluid, 1935, 113: 100.

MULLIN, F. J. and A. B. LUCKHARDT. Effects of certain analgesic drugs on cutaneous, tactile and pain sensitivity, 1935, 113: 100.

The effect of alcohol on cutaneous tactile and pain sensitivity, 1934, 109:77.

MULLIN, F. J. See Cooperman, Mullin and Kleitman, 1934, 107: 589. See Kleitman, Cooperman and Mullin, 1933, 105: 574.

See Kleitman, Cooperman and Mullin, 1936, 116: 92.

MUNSON, P. L. See Sontag and Munson, 1934, 108: 593.

MUNTWYLER, E. and D. BINNS. The effect of cyanide and other substances on the oxygen uptake of rat tissue, 1934, 108: 80.

MUNTWYLER, E., V. C. MYERS, W. H. DANIELSON and C. ZORN. The acidbase changes in the serum of the dog associated with the hyperthermia of dinitrophenol administration, 1935, 113: 186.

MURLIN, J. R. Conditions for metabolism of carbohydrate in aseptically incubated liver brei, 1930, 93: 677.

MURLIN, J. R. and A. C. BURTON. A semi-automatic respiration calorimeter for man, 1934, 109: 78.

MURLIN, J. R., R. L. TOMBOULIAN and H. B. PIERCE. Absorption of insulin from Thiry-Vella loops of the intestine in normal and departreatized dogs, 1937, 120: 733.

MURLIN, J. R. See DAGGS, MURLIN and MURLIN, 1937, 120: 744.

See Eaton and Murlin, 1932, 101: 31.

See Eaton and Murlin, 1933, 104: 636.

See Goldstein, Tatelbaum, Ehre and Murlin, 1932, 101: 166.

See Hawley, Johnson and Murlin, 1930, 93: 656.

See Hawley, Johnson and Murlin, 1933, 105: 46.

See Hawley and Murlin, 1931, 97: 531.

See Hawley and Murlin, 1932, 101: 51.

See Kochakian and Murlin, 1936, 117: 642.

See Nasset, Pierce and Murlin, 1935, 111: 145.

MURLIN, W. R. See Daggs, Murlin and Murlin, 1937, 120: 744. See Manly and Murlin, 1936, 116: 107.

MURPHY, W. S. See KOPPANYI and MURPHY, 1934, 109: 65.

See KOPPANYI, MURPHY, DILLE and KROP, 1934, 109: 64.

See Koppanyi, Murphy and Krop, 1933, 105: 64.

MURRAY, D. E. See Jones and Murray, 1935, 113: 74.

See Jones and Murray, 1937, 119: 344.

See Maison, Highstone, Mayka, Burgert and Murray, 1933, 105: 69.

MYERS, H. I. See Dempsey, Myers, Young and Jennison, 1934, 109: 307. See Young, Myers and Dempsey, 1933, 105: 393.

MYERS, V. C. See BEARD and MYERS, 1933, 106: 449.

See Muntwyler, Myers, Danielson and Zorn, 1935, 113: 186.

MYERSON, A., J. LOMAN, H. T. EDWARDS and D. B. DILL. The composition of blood in the artery, in the internal jugular vein and in the femoral vein during oxygen want, 1931, 98: 373.

MYRICK, L. See McClendon, Myrick, Conklin and Wilson, 1931, 97: 82.

N

NAHUM, L. H. and H. E. HOFF. The effect of injection of monoiodoacetic acid and sodium cyanide on the mammalian heart, 1934, 110: 56.

The effect of intravenous calcium injections on the heart, 1937, 119: 378.

The experimental production of ventricular fibrillation, and its prevention by β methyl acetyl choline chloride, 1934, 109: 78.

The influence of the cardiac sympathetics and adrenin on the phenomenon of ventricular escape, 1935, 113: 101.

NAHUM, L. H., E. C. HOFF and H. E. HOFF. The effect of the cardiac sympathetics and adrenalin upon ventricular rhythms induced in cats by inhalation of petroleum ether, 1936, 116: 111.

NAHUM, L. H. See Himwich, Fazikas, Nahum, Dubois, Greenburg and Gilman, 1934, 110: 19.

See Himwich, Goldfarb and Nahum, 1934, 109: 403.

See Himwich, Goldfarb, Rakieten, Nahum and Dubois, 1934, 110: 352.

See Himwich and Nahum, 1932, 101: 446.

See Himwich, Nahum, Rakieten, Fazikas and Dubois, 1932, 101: 57.

See Hoff, Dingle and Nahum, 1937, 119: 337.

See Hoff and Nahum, 1935, 110: 675.

See Hoff and Nahum, 1935, 113: 66.

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dogs,

NASSET, E. S. Physiological effects of high frequency current: II. Further studies on respiratory metabolism of anesthetized dogs, 1932, 101: 194.

Physiological effects of high frequency current: III. The carbon dioxide and oxygen content and capacity and the concentration of blood of anesthetized dogs, 1932, 101: 203.

Preparation of vasodilation-free intestinal secretory hormone, 1937, 119: 379.

Some changes in blood gas content and capacity during hyperthermia induced by the high frequency electric current, 1931, 97: 548.

The distribution of a chemical excitant for the glands of the jejunum, 1936, 116: 112.

NASSET, E. S., F. W. BISHOP and S. L. WARREN. Physiological effects of high frequency current. I. Respiratory metabolism and certain changes in the blood of anesthetized dogs, 1931, 96: 439.

NASSET, E. S., J. W. KARR and S. B. PETERS. Dehydration in hyperthermia produced by high frequency electric current, 1932, 101: 78.

NASSET, E. S. and A. A. PARRY. Passage of fluid and certain dissolved substances through the intestinal mucosa as influenced by changes in hydrostatic pressure, 1934, 109: 614.

NASSET, E. S. and S. B. PETERS. An attempt to determine the energy requirement for varying degrees of pulmonary ventilation, 1933, 105: 75.

Physiological effects of high frequency current. IV. An estimate of the energy requirement of pulmonary hyperventilation, 1933, 106: 291.

NASSET, E. S. and H. B. PIERCE. On the influence of peptones and certain extracts of small intestine upon the secretion of succus entericus, 1935, 113: 568.
The chemical analysis and enzyme content of intestinal juice, 1935, 113: 101.
The secretion of intestinal juice as influenced by certain drugs and extracts,

The secretion of intestinal juice as influenced by certain drugs and extracts 1934, 109: 79.

NASSET, E. S., H. B. PIERCE and J. R. MURLIN. Proof of a humoral control of intestinal secretion, 1935, 111: 145.

NASSET, E. S. See Bourns, Nasset and Hettig, 1936, 116: 563.

See Karr and Nasset, 1934, 107: 170.

See Parry and Nasset, 1933, 105: 78.

See Pierce and Nasset, 1934, 109: 83.

NECHELES, H. Basal metabolism in Orientals, 1930, 91: 661.
Further studies on the metabolism of Chinese, 1932, 101: 79.

NECHELES, H. and A. COYNE. The secretion of mucus of the normal and diseased stomach, 1934, 109: 80.

NECHELES, H. and R. FRANK. The reaction of the rat's stomach to acetylcholine, 1935, 113: 101.

NECHELES, H., R. FRANK, W. KAYE and E. ROSENMAN. Effect of acetylcholine on the bloodflow through the stomach and legs of the rat, 1936, 114: 695.

NECHELES, H. and R. W. GERARD. The effect of carbon dioxide on nerve, 1930, 93: 318.

NECHELES, H., P. LEVITSKY, R. KOHN and M. MASKIN. The reaction of the dog's stomach to acetylcholine, 1936, 116: 112.

NECHELES, H., P. LEVITSKY, R. KOHN, M. MASKIN and R. FRANK. The vasomotor effect of acetylcholine on the stomach of the dog, 1936, 116: 330.

NECHELES, H. and J. MEYER. On the inhibition of gastric secretion by oil of peppermint, 1935, 110: 686.

NECHELES, H. See MEYER, GOLDEN, STEINER and NECHELES, 1937, 119: 600.

NEIGUS, I. See WILHELMJ, HENRICH, NEIGUS and HILL, 1934, 108: 197.

See WILHELMJ, HENRICH, NEIGUS and HILL, 1934, 109: 112.

See WILHELMJ, HENRICH, NEIGUS and HILL, 1935, 112: 15.

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NEIGUS, I.

See WILHELMJ, HENRICH, NEIGUS and HILL, 1935, 113: 137.

See WILHELMJ, Moskowitz and Neigus, 1933, 105: 99.

See WILHELMJ and NEIGUS, 1933, 105: 100.

See WILHELMJ, NEIGUS and HILL, 1933, 106: 381.

See WILHELMJ, NEIGUS and HILL, 1934, 107: 490.

NEILD, H. W., W. P. ELHARDT, G. C. WICKWIRE, O. S. ORTH and W. E. BURGE. A comparison of the effect of different anesthetics on the electrical potential of the cerebral cortex, 1936, 116: 113.

NEILD, H. W. and A. F. SERRITELLA. Water absorption and elimination of frogs during ether, nitrous oxide, chloroform, and ethylene anesthesia, 1934, 108: 550.

NEILD, H. W. See Burge, Wickwire, Neild and Hilpert, 1937, 119: 283.

See Burge, Wickwire, Orth, Neild and Elhardt, 1936, 116: 19. See ORTH, NEILD, SCHAMP, SULLIVAN and BURGE, 1936, 116: 116.

See Wickwire, Kneer, Neild and Burge, 1934, 109: 111.

NELSON, E. M. See Walker and Nelson, 1933, 103: 25.

NELSON, J. M. See Pratt, Vanlandingham, Talley, Nelson and Johnson, 1932, 102: 148.

NELSON, P. M. See Swanson and Nelson, 1933, 105: 92.

NEĽSON, V. E. See FEASTER and NELSON, 1936, 115: 147.

See Keil, Keil and Nelson, 1934, 108: 215.

See Wilkinson and Nelson, 1931, 96: 139.

NELSON, W. O., J. J. PFIFFNER and H. O. HATERIUS. The prolongation of pregnancy by extracts of corpus luteum, 1930, 91: 690.

NELSON, W. O. and G. K. SMELSER. Studies on the physiology of lactation. II. Lactation on the male guinea pig and its bearing on the corpus luteum problem, 1933, 103: 374.

NELSON, W. O., C. W. TUFNER and M. D. OVERHOLSER. The effect of lactogenic hormone preparations on the blood sugar level of rabbits and monkeys, 1935, 112: 714.

NELSON, W. O. See LEBLOND and NELSON, 1937, 120: 167.

NETTER, H. See Mond and Netter, 1932, 101: 77.

NEUFELD, A. See Collip, Selve and Neufeld, 1937, 119: 289.

NEUWIRTH, I. The distribution of glucose in blood, 1936, 117: 335.

See Bodo and Neuwirth, 1933, 103: 5.

NEVILLE, M. See Kunde and Neville, 1930, 92: 457.

NEWBURGER, F. G. See Zucker, Newburger and Berg, 1932, 102: 193, 209.

NEWBURGH, L. H. The determination of total transformation of energy by means of the insensible loss of weight, 1931, 97: 548.

See Sheldon and Newburgh, 1937, 119: 403.

See WILEY and NEWBURGH, 1930, 93: 698.

NEWELL, Q. U. See Allen, Pratt, Newell and Bland, 1930, 92: 127.

NEWMAN, E. B. See Bartley and Newman, 1931, 99: 1.

NEWMAN, E. V., D. B. DILL, H. T. EDWARDS and F. A. WEBSTER. The rate of lactic acid removal in exercise, 1937, 118: 457.

NEWMAN, M. and C. H. THIENES. On the sympathetic innervation of guineapig intestine, 1933, 104: 113.

NEWTON, H. F., R. L. ZWEMER and W. B. CANNON. Studies on the conditions of activity in endocrine organs. XXV. The mystery of emotional acceleration of the denervated heart after exclusion of known humoral accelerators, 1931, 96: 377.

NEWTON, I. See Turner, Newton and Haynes, 1930, 93: 693.

NEWTON, M. I. See Turner, Newton and Haynes, 1930, 94: 507.

NICE, L. B. The reticulocyte increase in blood during emotional excitement, 1937, 119: 379.

NICE, L. B. and D. FISHMAN. Changes in the viscosity of the blood in normal, splenectomized and adrenalectomized animals following emotional excitement, 1934, 107: 113.

The changes in the specific gravity of the blood of pigeons during emotional excitement, 1936, 116: 114.

The specific gravity of the blood of pigeons in the quiet state and during emotional excitement, 1936, 117: 111.

The viscosity of the blood of pigeons in the quiet state and following excitement, 1934, 109: 569.

NICE, L. B., O. C. IRWIN and R. M. KRAFT. Coagulation time of the blood of adrenalectomized rats, 1931, 96: 305.

NICE, L. B. and H. L. KATZ. Blood volume and hematocrit determinations in rabbits before and during emotional excitement, 1934, 108: 349.

Emotional leucopenia in rabbits, 1936, 117: 571.

Hematocrit and blood volume in emotionally excited rabbits, 1933, 105: 75.

The distribution of white blood cells in the peripheral circulation of emotionally excited rabbits, 1934, 109: 80.

The specific gravity of the blood of normal rabbits and cats and splenectomized rabbits before, during and after emotional excitement, 1935, 113: 205.

NICE, L. B., H. L. KATZ, D. FISHMAN and D. L. FRIEDMAN. The non-filament and filament neutrophil count during emotional excitement, 1935, 113: 102.

NICE, L. B. and M. LINDSAY. The relation of the spleen to changes in the specific gravity of the blood, 1932, 101: 79.

NICE, L. B. and A. H. SIMONS. The specific gravity of the blood of emotionally excited rats, 1931, 97: 548.

NICE, L. B. See FRIEDMAN and NICE, 1930, 93: 650.

See Friedman and Nice, 1930, 95: 40.

See KATZ and NICE, 1933, 105: 59.

See Katz and Nice, 1934, 107: 709.

See KATZ and NICE, 1934, 109: 60.

See Lumley and Nice, 1930, 93: 152.

See Schiffer and Nice, 1930, 95: 292.

NICHOLSON, H. Effects of low alveolar oxygen and high alveolar carbon dioxide on the rate of flow of cerebrospinal fluid, 1932, 99: 570.

NICHOLSON, H. C. Effects of flooding the medulla with Locke's solution of varying temperature upon respiration and circulation, 1932, 101: 80.

Effects of local cooling on the surface of the brain stem on respiration, 1934, 109: 81.

Localization of the central respiratory mechanism as studied by local cooling of the surface of the brain stem, 1936, 115: 402.

NICHOLSON, H. C. and D. BREZIN. Alterations of the actions of various respiratory modifiers by local cooling of the floor of the fourth ventricle, 1937, 118: 441.

Effects of local cooling of the floor of the fourth ventricle on respiration, 1935,

NICHOLSON, H. C. and S. SOBIN. Alterations in breathing from local chemical applications to the floor of the fourth ventricle, 1937, 119: 380.

Effects of local chemical application to the floor of the fourth ventricle on breathing, 1936, 116: 114.

NICHOLSON, H. See Gesell, Krueger, Nicholson, Brassfield and Pelecovich, 1932, 100: 202, 227.

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tions lerators, NICOLL, P. A. Glutathione in frog tissues with special reference to peripheral nerve, 1937, 119: 593.

The glutathione content of frog peripheral nerve, 1937, 119: 380.

See SCHMITT and NICOLL, 1932, 101: 91.

See SCHMITT and NICOLL, 1933, 106: 225.

NILSON, H. W. Corticoadrenal insufficiency: metabolism studies on potassium, sodium and chloride, 1937, 118: 620.

NILSON, H. W., L. S. PALMER and C. KENNEDY. Physiological effects of pituitary growth hormone: growth and efficiency of food utilization, 1935, 111: 341.

NILSON, H. W. See Ingle, Nilson and Kendall, 1937, 118: 302.

NISIMARU, Y. Bile pigment formation in the liver from hemoglobin, 1931, 97: 654.

NIXON, E. N. See ROGOFF and NIXON, 1937, 120: 440.

NOBLE, W. See KELLER and NOBLE, 1935, 113: 79.

See Keller and Noble, 1936, 116: 90. See Keller, Noble and Hamilton, 1936, 117: 467.

See Keller, Noble and Keller, 1935, 113: 80.

NOONAN, W. J. See Huggins, Blocksom and Noonan, 1936, 115: 395. See Huggins, Noonan and Blocksom, 1936, 116: 83.

NORRIS, E. R. and R. S. WEISER. The influence of strenuous muscular exercise upon renal exerction, 1937, 119: 642.

NORTHINGTON, P. and S. E. BARRERA. The galvanic nystagmus reaction in the monkey, 1937, 120: 703.

NORTHINGTON, P. See PIKE and NORTHINGTON, 1930, 93: 679.

NORTHUP, D. The secretory metabolism of the salivary glands, 1935, 114: 46.

See Gellhorn and Northup, 1932, 100: 173.

See Gellhorn and Northup, 1933, 103: 382.

See Gellhorn and Northup, 1933, 106: 283.

See Gellhorn and Northup, 1934, 108: 469.

See Van Liere, Sleeth and Northup, 1936, 117: 226. See Van Liere, Sleeth and Northup, 1937, 119: 480.

NORTHUP, D. W. Length-tension relationships in contractures of skeletal muscle. 1936, 116: 115.

See Gellhorn and Northup, 1933, 105: 36, 684.

NORTHUP, J. D. See Gellhorn and Northup, 1933, 104: 537.

NOTKIN, J. See PIKE and NOTKIN, 1930, 93: 679.

See Pike and Notkin, 1931, 97: 549.

NUSSMAN, T. C. See RIDDLE, NUSSMAN and BENEDICT, 1932, 101: 251.

NYBOER, J. Comparison of changes in cardiac and respiratory rhythms effected in the dog by changes in physiological conditions, 1933, 106: 204.

Comparison of changes in cardiac and respiratory rhythms effected by common changes in physiological conditions, 1932, 101: 80.

NYGAARD, K. K., M. WILDER and J. BERKSON. The relation between viscosity of the blood and the relative volume of erythrocytes (hematocrit value), 1935, 114: 128.

NYGAARD, K. K. See BALDES and NYGAARD, 1936, 116: 3.

0

OBRADOR, S. See Wyss and Obrador, 1937, 120: 42.

O'BRIEN, F. T. See WILHELMJ, McCARTHY, O'BRIEN and HILL, 1937, 118: 505.

See WILHELMJ, O'BRIEN and HILL, 1935, 113: 138.

See Wilhelmj, O'Brien and Hill, 1936, 115: 5, 429.

See Wilhelmj, O'Brien and Hill, 1936, 116: 163, 685.

O'BRIEN, F. T.

See WILHELMJ, O'BRIEN, McCarthy and Hill, 1936, 117: 79.

OCKO, F., I. GUTMAN, E. SIGMAN and L. N. KATZ. The importance of electrical shunts in contact with the heart in determining the electrical field, 1935, 113: 103.

OCKO, F. H. See Katz, Gutman and Ocko, 1936, 116: 302.
See Katz, Sigman, Gutman and Ocko, 1936, 116: 343.

O'CONNOR, P. A. See Halpert, O'Connor and Thompson, 1935, 112: 383.

O'DONOVAN, D. K. The influence of pituitary extracts on oxygen consumption, 1937, 119: 381.

OFFNER, F. The crystograph ink writer, 1937, 119: 381.

OGDEN, E. See HARMON, OGDEN and COOK, 1932, 100: 99.

OGLE, C. Adaptation of sexual activity to environmental stimulation, 1934, 107: 628.

Climatic influence on the growth of the male albino mouse, 1934, 107: 635.

OGLE, C. and C. A. MILLS. Adaptation of sexual activity to environmental stimulation, 1933, 105: 76.

Animal adaptation to environmental temperature conditions, 1933, 103: 606.
OGLE, C. L. Germinal response (in male mice) to environmental conditions, 1936, 117: 285.

OLDBERG, E. An attempt to auto-transplant the adrenal, 1929, 91: 275.

OLDHAM, F. K. The action of the preparations from the posterior lobe of the pituitary gland upon the imbibition of water by frogs, 1936, 115: 275.

O'LEARY, J. and G. H. BISHOP. The source of cortical potentials, 1936, 116: 115.
O'LEARY, J., P. HEINBECKER and G. H. BISHOP. Analysis of function of a nerve to muscle, 1935, 110: 636.

The fiber constitution of the depressor nerve of the rabbit, 1934, 109: 274.

O'LEARY, J. See BARTLEY, O'LEARY and BISHOP, 1937, 120: 604.

See BISHOP, HEINBECKER and O'LEARY, 1934, 109: 409.

See Bishop and O'LEARY, 1936, 117: 292.

See Heinbecker, O'Leary and Bishop, 1933, 104: 23.

O'LEARY, J. L. See BISHOP, HEINBECKER and O'LEARY, 1933, 106: 647. See Heinbecker and O'Leary, 1933, 106: 623.

OLIVER, J. and E. SHEVKY. The relation of particle size to mechanism of dye excretion by the kidney, 1930, 93: 363.

OLMANSON, G. See Saiki, Olmanson and Talbert, 1932, 100: 328.

OLMSTED, J. M. See GIRAGOSINTZ and OLMSTED, 1930, 92: 414.

OLMSTED, J. M. D. Changes in the permeability of red corpuscles in shed blood to glucose, 1936, 114: 488.

Distribution of glucose in blood, 1935, 111: 551.

OLMSTED, J. M. D. and P. HODGSON. An explanation of the results of the "alcohol block," 1931, 97: 597.

OLMSTED, J. M. D., M. MARGUTTI and K. YANAGISAWA. Adaptation to transposition of eye muscles, 1936, 116: 245.

OLMSTED, J. M. D. and R. R. PINGER. Regeneration of taste buds after suture of the lingual and hypoglossal nerves, 1936, 116: 225.

OLMSTED, J. M. D. and L. S. READ. Glucose and non-glucose portions of "blood sugar" in the hepatic and portal veins of the decapitate cat at different sugar levels, 1934, 109: 303.

OLMSTED, J. M. D. See Cook and OLMSTED, 1930, 92: 249.

See Mackler, Olmsted and Simpson, 1929, 91: 362.

See Mackler, Olmsted and Simpson, 1930, 94: 626.

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OLSON, S. See KEETON, MACKENZIE, OLSON and PICKENS, 1931, 97: 473.
See KEETON and OLSON, 1930, 93: 662.

OPPEL, T. W. and J. D. HARDY. The stimulation of the end organs of the skin by radiation, 1936, 116: 116.

ORENT, E. R., H. D. KRUSE and E. V. McCOLLUM. Studies in magnesium deficiency in animals. II. Species variation in symptomatology of magnesium deprivation, 1932, 101: 454.

ORENT, E. R. See KLEIN, ORENT and McCollum, 1935, 112: 256.

ORENT-KEILES, E., A. ROBINSON and E. V. McCOLLUM. The effects of sodium deprivation on the animal organism, 1937, 119: 651.

ORIAS, O. The eardiodynamic effects following ligation of coronary arteries, 1932, 101: 81.

The dynamic changes in the ventricles following ligation of the ramus descendens anterior, 1932, 100: 629.

Response of the nictitating membrane to prolonged stimulation of the cervical sympathetic, 1932, 102: 87.

See BARD and ORIAS, 1933, 105: 2.

See Wiggers and Orias, 1932, 100: 614.

ORNDOFF, B. H. See IVY, DREWYER and ORNDOFF, 1930, 93: 661.

ORT, J. M. and J. MARKOWITZ. Hydrion concentration and edema in perfused hearts of rabbits, 1930, 94: 60.

Osmotic pressure, bound water and edema in perfused hearts, 1931, 96: 541.

ORT, J. M., M. H. POWER and J. MARKOWITZ. Studies in cardiac permeability, 1931, 98: 163.

ORT, J. M. See Power, Essex and Ort, 1931, 97: 551.

ORTEN, A. U. and A. H. SMITH. The effect of dietary protein on endocrine function and on the blood picture of female rats, 1937, 119: 381.

ORTEN, J. M. On the mechanism of the hematopoietic action of cobalt, 1936, 114: 414

ORTEN, J. M. and A. H. SMITH. The proportion of reticulocytes in the blood of albino rats, 1934, 108: 66.

ORTH, O. S. and W. E. BURGE. A comparison of the catalytic activity of the ash of the different tissues, 1932, 101: 82.

ORTH, O. S., H. W. NEILD, H. M. SCHAMP, J. E. SULLIVAN and W. E. BURGE. Evidence that the cause of fatigue is electrical, 1936, 116: 116.

ORTH, O. S., G. C. WICKWIRE and W. E. BURGE. Further study of the effect of the movement of the blood on the tone of the blood vessels, 1933, 105: 77.

ORTH, O. S. See BERDA, ORTH and BURGE, 1932, 101: 100.

See Burge and Orth, 1935, 113: 21.

See Burge, Wickwire and Orth, 1933, 104: 480.

See Burge, Wickwire, Orth, Neild and Elhardt, 1936, 116: 19.

See Maison and ORTH, 1937, 119: 371.

See Neild, Elhardt, Wickwire, Orth and Burge, 1936, 116: 113.

See Wickwire, Orth and Burge, 1933, 105: 99.

ORTIZ, T. See Rosenblueth and Ortiz, 1936, 117: 495.

OSLUND, R. M. See Kunde, Oslund and Kern, 1931, 96: 45.

OSTERBERG, A. E. See KEITH, OSTERBERG and BINGER, 1937, 119: 347.

OTENASEK, F. J. and J. L. LILIENTHAL, JR. Decorticate polypneic panting and sham rage in the cat: their separate central mechanisms in the diencephalon, 1936, 116: 117.

OUGHTERSON, A. W. See HENDERSON, OUGHTERSON, GREENBERG and SEARLE, 1936, 114: 261, 269.

OVERSTREET, E. W. See GEMMILL, OVERSTREET and HELLMAN, 1933, 104: 443.

See GEMMILL, OVERSTREET and HELLMAN, 1933, 105: 36.

OVERHOLSER, M. D. See Nelson, Turner and Overholser, 1935, 112: 714.

OWEN, H. See WINDER, OWEN and GESELL, 1932, 101: 103.

OWEN, S. E. and A. C. IVY. The diuretic action of secretin preparations, 1931, 97: 276.

OWEN, S. E. See Dragstedt and Owen, 1931, 97: 286.

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PACE, D. M. See Mast and Pace, 1932, 101: 75.

See Mast and Pace, 1935, 113: 96.

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See Mast and Pace, 1936, 116: 108.

See Mast, Pace and Mast, 1936, 116: 107.

PACK, G. T. and D. BARBER. The placental transmission of insulin from fetus to mother, 1930, 92: 271.

PAFF, G. H. Transplantation of sino-atrium to conus in the embryonic heart in vitro, 1936, 117: 313.

See Johnson and Paff, 1937, 119: 343.

See RAY and PAFF, 1930, 93: 683.

See RAY and PAFF, 1930, 94: 521.

PAGE, I. H. Physiological properties of a central excitatory agent in fluid obtained by occipital puncture of man and animals, 1937, 120: 392.

The relationship of the extrinsic renal nerves to the origin of experimental hypertension, 1935, 112: 166.

PAGE, I. H. and J. E. SWEET. The effect of hypophysectomy on arterial blood pressure of dogs with experimental hypertension, 1937, 120: 238.

PAINTER, E. E. and O. G. HARNE. Analysis of contraction types of the excited uterus of the rat, 1934, 108: 33.

Uterine motility in the rat as revealed by a cannulation-suspension method, 1936. 116: 117.

PAINTER, E. E. See HARNE and PAINTER, 1933, 105: 566.

See HARNE and PAINTER, 1934, 109: 48.

See Harne and Painter, 1936, 116: 71.

PALITZ, L. L. and R. P. MORSE. A simple method for recording splenic volume changes in the intact, unanesthetized dog, 1936, 116: 118.

PALMER, J. W. The retention of sugar by the skin, 1930, 93: 677.

PALMER, L. S. See Nilson, Palmer and Kennedy, 1935, 111: 341.

PALMIERI, M. L. See Cowgill and Palmieri, 1933, 104: 484.

See Cowgill and Palmieri, 1933, 105: 146.

PANKRATZ, D. R. See Amberson, Flexner, Pankratz, Steggerda and Mulder, 1933, 105: 2.

PANKRATZ, D. S. and M. J. MARQUESS. Fetal movements in rabbits and cats, 1937, 119: 382.

PAPPENHEIMER, A. M. See GOETTSCH and PAPPENHEIMER, 1936, 115: 610.

PARIENTE, A. See Ralli, Brown and Pariente, 1931, 97: 432.

See Ralli, Pariente, Flaum and Waterhouse, 1933, 103: 458.

PARIENTE, A. C. See RALLI and PARIENTE, 1936, 116: 125.

PARK, G. E. See PARK and PARK, 1933, 104: 545.

PARK, R. S. and G. E. PARK. The center of ocular rotation in the horizontal plane, 1933, 104: 545. PARKER, G. H. The normal period of submergence for the hippopotamus, 1932, 99: 577.

The progressive degeneration of frog nerve, 1933, 106: 398.

PARKINS, W. M. Observations on direct intra-arterial determination of blood pressure in trained unanesthetized dogs, 1934, 107: 518.

PARKINS, W. M., H. W. HAYS and W. W. SWINGLE. A study of the blood sugar of the adrenalectomized dog, 1936, 117: 13.

PARKINS, W. M., A. R. TAYLOR and W. W. SWINGLE. A comparative study of sodium, chloride and blood pressure changes induced by adrenal insufficiency, trauma and intraperitoneal administration of glucose, 1935, 112: 581.

PARKINS, W. M. See GAUNT and PARKINS, 1933, 103: 511.

See Swingle and Parkins, 1935, 111: 426.

See SWINGLE, PARKINS and TAYLOR, 1936, 116: 430.

See Swingle, Parkins, Taylor and Hays, 1936, 116: 438.

See Swingle, Parkins, Taylor and Hays, 1937, 119: 557, 684.

See Swingle, Parkins, Taylor, Hays and Morrell, 1937, 119: 675.

See Swingle, Pfiffner, Vars, Bott and Parkins, 1933, 105: 93.

See Swingle, Pfiffner, Vars and Parkins, 1934, 107: 259. See Swingle, Pfiffner, Vars and Parkins, 1934, 108: 144, 159, 428.

See Swingle, Vars and Parkins, 1934, 109: 488.

PARMENTER, R. See Liddell, Sutherland, Parmenter and Bayne, 1936, 116: 95.

See Liddell, Sutherland, Parmenter, Curtis and Anderson, 1937, 119: 361.

PARPART, A. See Amberson, Parpart and Sanders, 1931, 97: 154.

PARPART, A. K. See JACOBS, GLASSMAN and PARPART, 1936, 116: 84.

See Jacobs, Parpart and Corson, 1934, 109: 58.

PARRY, A. A. and E. S. NASSET. Some factors in the absorption of fluid from the intestine, 1933, 105: 78.

PARRY, A. A. See Nasset and Parry, 1934, 109: 614.

PARSONS, H. T. and E. KELLY. The effect of heating egg white on certain characteristic pellegra-like manifestations produced in rats by its dietary use, 1933, 104: 150.

PARSONS, H. T. See HAUCK, STEENBOCK and Parsons, 1933, 103: 480, 489.

PARSONS, R. J. See DAVENPORT, FULTON, VAN AUKEN and PARSONS, 1934, 108: 99.

PARTINGTON, P. F. See Acheson, Rosenblueth and Partington, 1936, 115: 308.

See Pinkston, Partington and Rosenblueth, 1936, 115: 711.

PARTINGTON, P. P. The production of sympathin in response to physiological stimuli in the unanesthetized animal, 1936, 117: 55.

PATT, M. See HECHT, PESKIN and PATT, 1937, 119: 330.

PATTERSON, T. L. A study of the reflex influence of the sciatic and vagus on the motility of the bullfrog's stomach, 1932, 101: 82.

Gastric motility of the terrestrial mollusc. Ariolimax californicus, as influenced by temperature, insulin and glucose, 1935, 113: 103.

The estimation of the work done by the empty stomach of the bullfrog, 1933, 105: 78.

The movements and inhibition of the empty stomach of the sea hare (Tethys californicus), 1936, 116: 119.

The physiology of the gastric motor mechanism in the crab, 1930, 93: 678.

The relation of the time phases of muscular contraction in reciprocal innervation, 1934, 109: 81.

PATTERSON, T. L. and E. S. BOONE. Is the rotation of the crystalline style in the clam a substitute for gastric peristalsis, 1931, 97: 548. 1932,

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PATTERSON, T. L., R. E. SCANTLEBURY and J. A. GIJSBERS. New improvements in the ink recording system for kymographic registration, 1935, 113: 104.

PATTERSON, T. L. See FRICK, SCANTLEBURY and PATTERSON, 1935, 113: 47.
See Loew and Patterson, 1935, 113: 89.

See Loew and Patterson, 1937, 119: 361.

PATRAS, M. C., E. A. GALAPEAUX and R. D. TEMPLETON. Preoperative dietary management of albino rats for thyroparathyroidectomy, 1937, 119: 382.

The influence of dietary salts on parathyroid tetany in the albino rat, 1936, 116: 119.

PATRAS, M. C. See Chang, Patras and Templeton, 1937, 118: 423.

See Genitis, Towne, Patras and Templeton, 1936, 116: 58.

See Hummon, Patras and Templeton, 1936, 116: 84.

See Templeton and Patras, 1933, 105: 95.

PATTON, I. W. See Roseboom and Patton, 1932, 100: 178.

PAUL, W. D. and B. B. CLARK. Methemoglobin versus sulphemoglobin following ingestion of acetanilid, 1935, 113: 105.

PAUL, W. D., B. B. CLARK and C. MARTIN. Hyperglycemia, glycosuria and the respiratory quotients as the result of insulinization of non-diabetics, 1933, 105: 79

PAUL, W. D., B. B. CLARK and F. M. SMITH. Increased plasma bilirubin following intravenous injection of isoiodeiken (phenol-tetraiod-phthalein-sodium), 1934, 109: 82.

PAUL, W. D., J. A. GREENE and A. E. FELLER. Some observations on the mechanism of Cheyne-Stokes' respiration, 1937, 119: 383.

PAUL, W. D. See Smith and Paul, 1931, 97: 561.
See Smith, Paul and Fowler, 1930, 93: 688.

PAULSON, M. See Macht and Paulson, 1931, 97: 542.

PAXTON, P. See Mason, Shoemaker and Paxton, 1935, 113: 95.

PEACOCK, S. C. and W. F. HINMAN. Plasma protein determinations in lactating women, 1935, 113: 235.

PEARCE, J. M. Age and tissue respiration, 1936, 114: 255.

PEARCY, J. F. Evidence of functional rôle of basilar membrane in audition, 1929, 91: 8.

PEARSON, P. B. The effect of a lysine deficient diet on the oestrous cycle, 1937, 118: 786.

PEARSON, P. B. and H. R. CATCHPOLE. Correlated studies of the partition of calcium and inorganic phosphorus in the blood sera of Equidae, 1936, 115: 90.

PEARSON, P. B. See CATCHPOLE, COLE and PEARSON, 1935, 112: 21.

PELECOVICH, M. A quantitative study relating the magnitude of pulmonary ventilation to impairment of oxidations produced by intravenous injection of acid and of sodium cyanide, 1932, 99: 357.

See Gesell, Krueger, Nicholson, Brassfield and Pelecovich, 1932, 100: 202, 227.

PELS, I. R. See MACHT and PELS, 1934, 109: 69.

PENCHARZ, R. I. See REICHERT, PENCHARZ, SIMPSON, MEYER and EVANS, 1932, 100: 157.

PENDLETON, W. R. and F. E. WEST. The passage of urea between the blood and the lumen of the small intestine, 1932, 101: 391.

PERKINS, T. See Jasper and Perkins, 1932, 100: 564.

PERLMAN, H. B. See Kobrak, Lindsey, Perlman and Dubner, 1936, 116: 93.

PERLMAN, H. G. See KOBRAK and PERLMAN, 1937, 119: 353.

PERLSTEIN, M. A. and A. LEVINSON. Cerebrospinal fluid in normal dogs, 1932, 99: 626.

PERUSSÉ, G. L. See Rozen and Perussé, 1929, 91: 298.

PERUSSÉ, G. L., JR. and J. S. ROZEN. The effect of experimental hyperthyroidism on the movements of the empty stomach, 1929, 91: 291.

PESKIN, J. C. See HECHT, PESKIN and PATT, 1937, 119: 330.

PETERMANN, M. L. See D'ELSEAUX and PETERMANN, 1934, 109: 29.

PETERS, H., C. E. REA and M. B. VISSCHER. The influence of calcium salts and parathyroid extract upon the energy liberation and efficiency of the heart, 1933, 105: 79.

PETERS, H. C. and M. B. VISSCHER. The influence of digitalis-like glucosides on energy liberation and efficiency in the isolated mammalian heart, 1935, 113: 105.

PETERS, H. N. See Lashley, McDonald and Peters, 1933, 104: 51.

PETERS, S. B. See NASSET, KARR and PETERS, 1932, 101: 78.

See Nasset and Peters, 1933, 105: 75. See Nasset and Peters, 1933, 106: 291.

PETERSON, H. E. See King, Collins and Peterson, 1932, 102: 375.

PETERSON, R. D. See Keith, Power and Peterson, 1933, 105: 60.

See Keith, Power and Peterson, 1934, 108: 221. See Keith, Power and Peterson, 1934, 109: 62.

PETRIK, J. M. See BENEDICT and PETRIK, 1930, 94: 662.

PETRILLI, A. See FENN, BRODY and PETRILLI, 1931, 97: 1.

PEUGNET, H. B. and G. E. COPPÉE. Effects of strychnine on peripheral nerve, 1936, 116: 120.

PEUGNET, H. B. and A. S. GILSON, JR. The effects upon cardiac musculature of subthreshold electrical currents, 1932, 101: 83.

PEUGNET, H. B. See GILSON and PEUGNET, 1932, 100: 671.

PFEIFFER, C. A. Vaginal and uterine grafts in the rat as indicators of the production of oestrin, 1936, 117: 672.

PFIFFNER, J. J. and W. W. SWINGLE. Studies on the adrenal cortex. III. The revival of cats prostrate from adrenal insufficiency with an aqueous extract of the cortex, 1931, 96: 180.

PFIFFNER, J. J. See NELSON, PFIFFNER and HATERIUS, 1930, 91: 690.

See Swingle and Pfiffner, 1931, 96: 153, 164.

See Swingle and Priffner, 1931, 97: 566.

See Swingle and Pfiffner, 1931, 98: 144.

See Swingle, Priffner, Vars, Bott and Parkins, 1933, 105: 93.

See Swingle, Pfiffner, Vars and Parkins, 1934, 107: 259.

See Swingle, Pfiffner, Vars and Parkins, 1934, 108: 144, 159, 428.

See Webster, Priffner and Swingle, 1932, 99: 710.

PHELPS, K. R. See Heinle and Phelps, 1933, 104: 347, 349.

See QUIGLEY and PHELPS, 1934, 109: 85, 133.

PHILLIPS, P. K. Further studies on the effects of NaF administration upon the basal metabolic rate of experimental animals, 1936, 117: 155.

PHILLIPS, P. H., H. E. ENGLISH and E. B. HART. The influence of sodium fluoride upon the basal metabolism of the rat under several experimental conditions, 1935, 113: 441.

PHILLIPS, P. H., A. R. LAMB, E. B. HART and G. BOHSTEDT. Studies on fluorine in the nutrition of the rat. II. Its influence upon reproduction, 1933, 106: 356.

PHILLIPS, P. H. See Lamb, Phillips, Hart and Bohstedt, 1933, 106: 350.

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PHILLIPS, R. A. The influence of the vagus nerve on the glycemic level, 1933, 105: 257.

PHILLIPS, R. A. and S. B. BARKER. Insulin convulsions following stellate ganglionectomy, 1937, 119: 383.

PHILLIPS, R. A. and P. ROBB. Carbohydrate metabolism studies in hypophysectomized albino rats, 1934, 109: 82.

PHILLIPS, R. A. See FARR, HARE and PHILLIPS, 1937, 119: 305.

See FREEMAN and PHILLIPS, 1931, 98: 55.

See Freeman, Phillips and Cannon, 1931, 98: 435.

See Hinsey and Phillips, 1937, 119: 336.

See Rosenblueth and Phillips, 1932, 102: 332.

PHILLIPS, W. A. The inhibition of estrous cycles in the albino rat by progesterone, 1937, 119: 623.

PICKENS, L. See KEETON, MACKENZIE, OLSON and PICKENS, 1931, 97: 473.

PICKETT, A. D. See SMITH and PICKETT, 1936, 116: 145.

PIERCE, F. R. and M. I. GREGERSEN. Changes in the submaxillary secretory response to pilocarpine after section of the chorda tympani, 1937, 120: 246.

PIERCE, H. B. and E. S. NASSET. Studies on the transplanted intestinal loop. III. The chemical analysis of intestinal juice, 1934, 109: 83.

PIERCE, H. B. See Murlin, Tomboulian and Pierce, 1937, 120: 733.

See Nasset and Pierce, 1934, 109: 79.

See Nasset, Pierce and Murlin, 1935, 111: 145.

See Nasset and Pierce, 1935, 113: 101, 568.

PIERCE, H. F., J. S. FRIEDENWALD and D. FREEMAN. The gas content of the intra-ocular fluid, 1933, 104: 553.

PIERCE, J. A. See Montgomery and Pierce, 1934, 109: 76.

See Montgomery and Pierce, 1937, 118: 144. PIERSON, J. C. See Schmidt and Pierson, 1934, 108: 241.

See Schmidt and Pierson, 1934, 109: 92.

PIKE, F. H. Cerebellar symptoms from unsymmetrical lesions after median longitudinal section of the decussations of Forel and of the superior brachium, 1936, 116: 121.

Motor effects of median longitudinal incision of the decussations of the medial lemniscus and corticospinal tracts in the cat, 1937, 119: 384.

The routes of absorption of caffeine and of strychnine in fish, 1934, 109: 83.

Variations in the susceptibility of cats to absinth and hypotonic solutions, 1931, 97: 549.

PIKE, F. H., W. S. McCULLOCH and M. N. CHAPPELL. The deportment of cats and their susceptibility to experimentally produced convulsions after median longitudinal incision of the midbrain or medulla, 1930, 93: 678.

PIKE, F. H. and P. NORTHINGTON. Unilateral extirpation of the vestibule following median longitudinal incision of the midbrain in cats, 1930, 93: 679.

PIKE, F. H. and J. NOTKIN. Satellitosis and neuronophagia in the cat's brain from large doses of bromide, 1931, 97: 549.

The combined action of adrenalin or caffeine and absinthe in experimentally produced convulsions, 1930, 93: 679.

PIKE, F. H. See Coombs and PIKE, 1930, 95: 681.

See Coombs and Pike, 1931, 97: 92, 514.

See Coombs and Pike, 1932, 99: 521.

See HRUBETZ and PIKE, 1936, 116: 81.

See SMITH and PIKE, 1936, 116: 146.

PILCHER, C. See POWERS, PILCHER and BOWIE, 1931, 97: 405. See WILKINS, CALHOUN, PILCHER and REGEN, 1935, 112: 477.

PINCUS, G. The experimental activation of rabbit eggs, 1936, 116: 121.

PINCUS, G. and J. BERKMAN. Ascorbic acid during pregnancy in the rabbit, 1937, 119: 455.

PINCUS, G. and R. E. KIRSCH. The sterility in rabbits produced by injections of oestrone and related compounds, 1936, 115: 219.

PINCUS, G. and N. T. WERTHESSEN. A quantitative method for the bioassay of progestin, 1937, 120: 100.

The continued injection of oestrin into young rats, 1933, 103: 631.

PINCUS, G. See BAUM and PINCUS, 1932, 102: 241.

See Burdick and Pincus, 1935, 111: 201.

See Enzmann and Pincus, 1933, 103: 30. See Werthessen and Pincus, 1933, 104: 117.

PINGER, R. R. See OLMSTED and PINGER, 1936, 116: 225.

PINKSTON, J. O. Experimental fever in sympathectomized animals, 1935, 111: 539.
Peripheral circulation during experimental fever, 1934, 110: 448.

PINKSTON, J. O., P. BARD and D. McK. RIOCH. The responses to changes in environmental temperature after removal of portions of the forebrain, 1934, 109: 515.

PINKSTON, J. O. and M. I. GREGERSEN. Determinations of plasma volume in dogs during experimental fever and during exposure to heat, 1935, 113: 106.

PINKSTON, J. O., P. F. PARTINGTON and A. ROSENBLUETH. A further study of reflex changes of blood pressure in completely sympathectomized animals, 1936, 115: 711.

PINKSTON, J. O. See Gregersen and Pinkston, 1936, 116: 66.

PINTO, S. See Morgulis and Pinto, 1932, 101: 77.

PI-SUÑER, J. Studies in racial metabolism. Basal metabolism of the Araucanian Mapuches, 1933, 105: 383.

See Hoff, Hoff, Bucy and Pi-Suner, 1934, 109: 123.

PITTS, R. F. The clearance of creatine in dog and man, 1934, 109: 532.

The clearance of creatine in the phlorizinized dog, 1934, 109: 542.

The clearance of hexamethenamine in the dog, 1936, 115: 706.

The comparison of urea with urea + ammonia clearances in acidotic dogs, 1936, 116: 121.

The excretion of creatine in the marine teleost, 1937, 119: 385.

The excretion of inulin and phenol red by the chicken, 1937, 119: 384.

The excretion of urine in the dog. VII. Inorganic phosphate in relation to plasma phosphate level, 1933, 106: 1.

PITTS, R. F. and I. M. KORR. The urea clearance in the chicken, 1937, 119: 385.

PITTS, W. R. See Hamilton, Lichty and Pitts, 1932, 100: 383. PLUMMER, A. J. See Rowe, McManus and Plummer, 1933, 105: 85.

PLUMMER, A. J. See Rowe, McManus and Plummer, 1933, 105: 8 See Rowe, Plummer and McManus, 1932, 101: 90.

PLYMATE, H. B. See Moore and Plymate, 1932, 102: 605.

See Moore, Plymate and Andrew, 1932, 102: 581, 598.

See Moore, Plymate, Andrew and White, 1932, 102: 566, 573.

See Moore, Plymate and White, 1932, 102: 593.

POCOCK, B. See Gemmill, Booth and Pocock, 1930, 92: 253.

POHLMAN, A. G. Experiments on auditory mechanics, 1935, 113: 107.

Is the Weber interpretation of auditory mechanics correct, 1935, 113: 106.

POLHEMUS, I. See RIDDLE and POLHEMUS, 1931, 98: 121.

POLLACK, H. Serum and muscle phosphate changes following glucose injection, 1933, 105: 79.

POLLACK, H., E. FLOCK and J. L. BOLLMAN. Compounds of phosphorus in the heart and striated muscles of the dog: Methods of determination and normal values, 1934, 110: 105.

POLLACK, H., E. FLOCK, H. E. ESSEX and J. L. BOLLMAN. Phosphorus compounds in the perfused heart of the dog, 1934, 110: 97.

POLLACK, H., E. FLOCK, P. MASON, H. E. ESSEX and J. L. BOLLMAN. Changes in the phosphorus compounds in the perfused hind limb of the dog, 1934, 110: 102.

POLLACK, H., E. FLOOK and J. L. BOLLMAN. Distribution of phosphorus compounds in striated and cardiac muscles of the dog, 1934, 109: 84.

POLLACK, H., R. F. MILLET, H. E. ESSEX, F. C. MANN and J. L. BOLLMAN. Serum phosphate changes induced by injections of glucose into dogs under various conditions, 1934, 110: 117.

POLLOCK, B. E. See Johnson, Pollock, Mayerson and Laurens, 1936, 114: 594.
POLLOCK, L. J. and L. DAVIS. Studies in decerebration. V. The tonic activities of a decerebrate animal exclusive of the neck and labyrinthine reflexes, 1930, 92: 625.

Studies in decerebration. VI. The effect of deafferentation upon decerebrate rigidity, 1931, 98: 47.

POLLOCK, L. J. See Davis and Pollock, 1930, 93: 379.

POMERAT, C. M. and M. X. ZARROW. A method of temperature analysis of endocrine function, 1936, 116: 122.

POMERENE, E. and H. H. BEARD. Studies in the nutrition of the white mouse.
VI. The experimental production of xerophthalmia in mice, 1930, 92: 282.

POMERENE, E. See Dominguez, Goldblatt and Pomerene, 1935, 114: 240. See Dominguez, Goldblatt and Pomerene, 1937, 119: 429. See Dominguez and Pomerene, 1934, 109: 29.

POMMERENKE, W. T., H. F. HANEY and W. J. MEEK. The energy metabolism of pregnant rabbits, 1930, 93: 249.

POND, S. E. A comparative study of skeletal structures with reference to the effect of age upon the inorganic composition, 1931, 97: 550.

A comprehensive procedure for comparative, biological study of the skeletalsolids in animals, with particular reference to the quantitative determination of changes in the inorganic constituents effected by increase in age, 1931, 97: 550.

Improved methods for regional analysis of bone, 1932, 101:83.

PONDER, E. The relation of red cell diameter and number to the light transmission of suspensions, 1935, 111: 99.

PONDER, E., M. DUBIN and A. S. GORDON. An indirect method for making red cell counts, 1934, 108: 125.

PONDER, E. See GORDON, KLEINBERG and PONDER, 1937, 120: 150

POPPEN, J. R. See Behnke, Johnson, Poppen and Motley, 1935, 110: 565.

PORTER, E. L. Evidence that the postural tonus of decerebrate rigidity increases in amount by the successive innervation of single motor neurones, 1929, 91:345.

PORTER, E. L. and R. K. BLAIR. Spread of reflex action in the spinal cat following intravenous injection of sodium cyanide, 1937, 119: 386.

PORTER, E. L. See MOORE and PORTER, 1934, 109: 76.

PORTER, W. T. and F. H. PRATT. New and improved apparatus for teaching and research, 1935, 113: 107.

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1936,

385.

PORTER, W. T. See PRATT and PORTER, 1936, 116: 122.

POSEY, L. C. and E. B. CARMICHAEL. On the action of rattlesnake venom upon respiration, 1933, 105: 80.

POSEY, L. C. See CARMICHAEL and Posey, 1932, 101: 17.

POST, J. See Huggins and Post, 1937, 119: 340.

POTTER, W. F. Further effects of methyl guanidine upon autonomic nerves, 1930, 93: 679.

POTTER, W. F. and O. O. STOLAND. The effects of methyl guanidine salts upon some of the autonomic nerves of the dog, 1932, 99: 598.

POWER, M. H., H. E. ESSEX and J. M. ORT. Erythrocytes and oxygen as factors in determining the permeability of animal tissues in general, 1931, 97: 551.

POWER, M. H., N. M. KEITH and E. G. WAKEFIELD. The persistence of acacia in the blood after intravenous injections of acacia solution, 1935, 113: 107.

POWER, M. H. See Adams, Power and Boothby, 1935, 111: 596.

See Adams, Power and Boothby, 1937, 118: 562.

See Bollman, Mann and Power, 1935, 111: 483.

See Keith and Power, 1937, 120: 203.

See Keith, Power and Peterson, 1933, 105: 60.

See Keith, Power and Peterson, 1934, 108: 221.

See Keith, Power and Peterson, 1934, 109: 62.

See Keith, Wakefield and Power, 1932, 101: 63.

See ORT, POWER and MARKOWITZ, 1931, 98: 163.

POWERS, E. B. The physiology of respiration of fishes in relation to the environment. X. The mechanism of the deposition of gases into the swim-bladder, 1932, 101: 84.

See Hickman and Powers, 1932, 101: 56.

POWERS, J. H., M. A. BOWIE and I. M. HOWARD. Some observations on the blood of normal dogs, with special reference to the total volume, 1930, 92: 665.

POWERS, J. H., C. PILCHER and M. A. BOWLE. Some observations on the circulation in experimental mitral stenosis, 1931, 97: 405.

PRATT, F. H. On the grading mechanism of muscle, 1930, 93: 9.

Tetanus in muscle fiber and the grading influence of stimulation frequency, 1930, 93: 681.

The jurisdiction of the all-or-none law, 1930, 93: 680.

The vocal sac employed as a nerve-muscle preparation, 1930, 93: 681.

Observations on responses limited to the motor unit, 1931, 97: 551.

PRATT, F. H. and W. T. PORTER. Electrical timing and recording devices, 1936, 116: 122.

PRATT, F. H. and M. A. REID. A transilluminated preparation of the retrolingual membrane in situ, 1930, 93: 681.

Bilateral integration of reptilian lymph hearts, 1934, 109: 84.

Homolateral synchronism of lymphatic hearts in the frog and conditions attending neurogenic-myogenic reversal, 1932, 101: 85.

The lymph-heart as a facultative effector, 1930, 93: 681.

PRATT, F. H. See PORTER and PRATT, 1935, 113: 107.

See STEIMAN and PRATT, 1936, 116: 151.

PRATT, J. P. See Allen, Pratt, Newell and Bland, 1930, 92: 127.

PRATT, T. W., H. W. VANLANDINGHAM, E. E. TALLEY, J. M. NELSON and E. O. JOHNSON. Studies of the liver function of dogs, 1932, 102: 148.

PRESCOTT, C. H. See Lane, McCulloh, Prescott and Dusser de Barenne, 1935, 113: 85.

PREST, M. See SMITH and PREST, 1932, 99: 562.

PREST, M. R. See Andersen, Prest and Victor, 1937, 119: 445.

See Victor, Andersen and Prest, 1936, 115: 121.

PRICE, D. See MOORE and PRICE, 1931, 99: 197.

PRICKETT, C. O. The effect of a deficiency of vitamin B upon the central and peripheral nervous systems of the rat, 1934, 107: 459.

PRIEST, W. S. See Soskin, Priest and Schutz, 1932, 101: 95.

See Soskin, Priest and Schutz, 1934, 108: 107.

PRIESTLEY, J. T., J. MARKOWITZ and F. C. MANN. Studies on the physiology of the liver. XX. The detoxicating function of the liver with special reference to strychnine, 1931, 96: 696.

The tachycardia of experimental hyperthyroidism, 1931, 98: 357.

PROCTER, H. A. and C. H. BEST. Changes in muscle glycogen accompanying physical training, 1931, 97: 552.
Changes in muscle glycogen accompanying physical training, 1932, 100: 506.

PROGER, S. H. and L. DEXTER. The continuous measurement of the velocity of venous blood flow in the arm during exercise and change of posture, 1934, 109:

PROGER, S. H. See KORTH and PROGER, 1934, 107: 55.

PROSSER, C. L. A preparation for the study of single synaptic junctions, 1935, 113: 108.

Responses to illumination of the caudal ganglion in the crayfish, 1933, 105: 80.

PROSSER, C. L. and W. S. HUNTER. The extinction of startle responses and spinal reflexes in the white rat, 1936, 117: 609.

PRUSMACK, J. J. See BEUTNER and PRUSMACK, 1934, 109: 8. See BEUTNER, PRUSMACK and EPSTEIN, 1934, 109: 9.

PUESTOW, C. B. Studies on the origin of the automaticity of the intestine: The action of certain drugs on isolated intestinal transplants, 1933, 106: 682.

Studies on the transplanted intestinal segment, 1933, 105: 81.

PUGSLEY, L. I. The effect of parathyroid hormone upon the serum calcium and calcium exerction of adrenalectomized rats, 1935, 113: 108.

The effect of weaning upon the excretion of calcium in the urine of lactating rats, 1936, 116: 123.

PUGSLEY, L. I. and E. M. ANDERSON. The effect of the growth and thyreotropic hormones of the anterior pituitary upon the calcium metabolism of the rat, 1934, 109: 85.

PUGSLEY, L. I. See Thomson, Harlow, Pugsley and Selye, 1936, 116: 154.
See Thomson and Pugsley, 1932, 102: 350.

PUMPHREY, R. J. See Bronk, Pumphrey and Hervey, 1935, 113: 17.

PUPPEL, I. D. and G. M. CURTIS. Calcium and iodine balance as related to thyroid function, 1936, 116: 123.

Q

QUICK, A. J. On the action of heparin and its relation to thromboplastin, 1936, 115: 317.

On the coagulation defect in peptone shock. A consideration of antithrombins, 1936, 116: 535.

On various properties of thromboplastin (aqueous tissue extracts), 1936, 114: 282. The coagulation defect in sweet clover disease and in the hemorrhagic chick disease of dietary origin, 1937, 118: 260.

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- QUIGLEY, J. P., J. BARCROFT, G. S. ADAIR and E. N. GOODMAN. The difference in potential across gastric membranes and certain factors modifying the potential, 1937, 119: 763.
- QUIGLEY, J. P. and B. O. BARNES. Action of insulin on the motility of the gastrointestinal tract. VI. Antagonistic action of posterior pituitary lobe preparations, 1930, 95: 7.
 - An investigation of the antagonism of insulin by posterior pituitary extracts as indicated by changes in gastro-intestinal motility, 1930, 93: 682.
- QUIGLEY, J. P., I. H. EINSEL, F. R. BING and R. F. HANZAL. The physiological importance of the gastric body and fundus, 1936, 116: 124.
- QUIGLEY, J. P., I. H. EINSEL and J. W. MULL. The importance of gastric juice in the absorption of calcium by dog and man, 1936, 116: 124.
- QUIGLEY, J. P. and W. R. HALLARAN. Effect of carbohydrate administration on gastrointestinal motility, 1931, 97: 552.
 - The independence of spontaneous gastro-intestinal motility and blood sugar levels, 1932, 100: 102.
- QUIGLEY, J. P., W. H. HIGHSTONE and A. C. IVY. A study of the propulsive activity of a Thiry-Vella loop of intestine, 1934, 108: 151.
- QUIGLEY, J. P. and J. L. LINDQUIST. Action of phlorhizin on hunger contractions in the normal or vagotomized dog, 1930, 92: 690.
 - Mechanical interference with the circulation as a factor in traumatic shock, 1930, 94: 529.
- QUIGLEY, J. P. and I. MESCHAN. Action of fats introduced into the duodenum on the pyloric sphincter and adjacent portions of the gut, 1937, 119: 386.
- QUIGLEY, J. P. and K. R. PHELPS. The mechanism of gastric inhibition following ingestion of carbohydrates, 1934, 109: 85.
 - The mechanism of gastric motor inhibition from ingested carbohydrates, 1934, 109: 133.
- QUIGLEY, J. P. and E. I. SOLOMON. Action of insulin on the motility of the gastro-intestinal tract. V. a. Action on the human duodenum. b. Action on the colon of dogs, 1930, 91: 488.
- QUIGLEY, J. P. and R. D. TEMPLETON. Action of insulin on the motility of the gastro-intestinal tract: III. a. Action on the pyloric pouch. b. Action on the stomach following double splanchnicotomy, 1930, 91: 475.
 - Action of insulin on the motility of the gastro-intestinal tract: IV. Action on the stomach following double vagotomy, 1930, 91:482.
- QUIGLEY, J. P., H. J. ZETTELMAN and A. C. IVY. Analysis of the factors involved in gastric motor inhibition by fats, 1934, 108: 643.
- The factors involved in inhibition of hunger contractions by fat, 1933, 105: 81. QUIGLEY, J. P. See Gelfan and Quigley, 1930, 94: 531.
- See Reid, Ivy and Quigley, 1934, 109: 483.
 - See Templeton and Quigley, 1930, 91: 467.

D

- RABIN, A. See HERRIN, RABIN and BACHHUBER, 1936, 115: 113.
 - See HERRIN, RABIN and FEINSTEIN, 1937, 119: 87.
- RADLOFF, E. M. The oxygen pulse in athletic girls during rest and exercise, 1931, 96: 126.
 - See HENDERSON and RADLOFF, 1932, 101: 54, 647.
 - See Henderson, Radloff and Greenberg, 1933, 105: 49.
- RAGINSKY, B. See DWORKIN, BOURNE and RAGINSKY, 1936, 116: 40.

RAIFORD, T. and M. G. MULINOS. Intestinal activity in the exteriorized colon of the dog, 1934, 110: 123.

The myenteric reflex as exhibited by the exteriorized colon of the dog, 1934, 110: 129.

RAINEY, W. R. See WHITE, RAINEY, MONAGHAN and HARRIS, 1934, 108: 449.

RAKIETEN, N. Changes in heat production after removal of motor and premotor areas in monkeys, 1936, 114: 661.

See Himwich, Goldfarb, Rakieten, Nahum and Dubois, 1934, 110: 352. See Himwich, Nahum, Rakieten, Fazikas and Dubois, 1932, 101: 57.

RAKIETEN, T. L. See Cowgill and Rakieten, 1930, 94: 165.

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RALLI, E. P., M. BROWN and A. PARIENTE. The urea clearance test in normal dogs, 1931, 97: 432.

RALLI, E. P., A. CANZANELLI and D. RAPPORT. The respiratory quotient of proteins in pancreatic diabetes, 1931, 96: 331.

RALLI, E. P., G. FLAUM and R. BANTA. The results of feeding lecithin and pancreas in depancreatized dogs on the liver fat and its saponifiable and unsaponifiable fractions, 1935, 110: 545.

RALLI, E. P., G. FLAUM, P. JOFFE and G. STUECK. Further observations on the vitamin A content of the livers of deparcreatized dogs and its relationship to the symptoms occurring in these animals, 1934, 107: 157.

RALLI, E. P. and A. C. PARIENTE. Changes in the vitamin A and carotene content of the livers of dogs following depancreatization or ligation of the pancreatic ducts, 1936, 116: 125.

RALLI, E. P., A. PARIENTE, G. FLAUM and A. WATERHOUSE. A study of vitamin A deficiency in normal and depancreatized dogs, 1933, 103: 458.

RALLI, E. P. See Stueck and Ralli, 1937, 119: 411.

See Waterhouse and Ralli, 1934, 109: 422.

RAND, J. H., 3RD. See Cunningham, Rand and Weckesser, 1934, 107: 164.

RANDLES, F. S. The effect of alpha-lobelin on the blood sugar level of adrenalectomized albino rats, 1931, 97: 553.

RANDLES, F. S. and C. F. GRAHAM. The use of a photosensitive cell as a drop recorder and as a time marker, 1933, 105: 82.

RANDLES, F. S. See DRESBACH and RANDLES, 1931, 97: 518.

RANQUIST, R. C. The effect of the vagus nerves on sugar tolerance in dogs, 1934, 108: 210.

RANSON, S. W. and J. C. HINSEY. Reflexes in the hind limbs of cats after transection of the spinal cord at various levels, 1930, 94: 471.

The Stütz reaction and reflex standing in the spinal cat, 1930, 93: 682.

RANSON, S. W. and W. R. INGRAM. Catalepsy caused by lesions between the mammillary bodies and third nerve in the cat, 1932, 101: 690.

RANSON, S. W., H. KABAT and H. W. MAGOUN. Autonomic reactions induced by electrical stimulation of the hypothalamus, 1934, 109: 85.

RANSON, S. W., H. W. MAGOUN and K. HARE. Focal stimulation of the interior of the brain with the Horsley-Clarke apparatus, 1936, 116: 126.

RANSON, S. W. See Hare, Magoun and Ranson, 1936, 117: 261.

See HINSEY and RANSON, 1930, 93: 659.

See Hinsey, Ranson and Doles, 1930, 95: 573.

See Ingersoll, Magoun and Ranson, 1936, 117: 267.

See Ingram and Ranson, 1932, 102: 466.

See Ingram, Ranson and Hannett, 1931, 98: 687.

See Kabat, Anson, Magoun and Ranson, 1935, 112: 214.

See Magoun, Hare and Ranson, 1935, 112: 329.

RANSON, S. W. See Magoun, Ranson and Hetherington, 1937, 119: 615. See Teague and Ranson, 1936, 117: 562.

RAPPORT, D. The nature of the foodstuffs oxidized to provide energy in muscular exercise. III. The utilization of the "waste heat" of metabolism in muscular exercise. 1929. 91: 238.

RAPPORT, D. and A. CANZANELLI. A comparison of the effects of tyrosine, diiodotyrosine, diiodothyronine and thyroxine upon metabolism, 1931, 97: 553.
Protein as a fuel in muscular exercise, 1932, 101: 85.

RAPPORT, D., A. CANZANELLI and R. GUILD. Ethyl alcohol as a fuel in museular exercise, 1934, 109: 86.

RAPPORT, D. See CANZANELLI, GUILD and RAPPORT, 1934, 110: 416.

See Canzanelli and Rapport, 1932, 102: 325.

See Canzanelli and Rapport, 1933, 103: 279.

See Canzanelli, Segal and Rapport, 1934, 110: 410.

See King and Rapport, 1933, 103: 288.

See RALLI, CANZANELLI and RAPPORT, 1931, 96: 331.

RATNER, B. Passage of native proteins through the normal gastro-intestinal wall, 1934, 109: 86.

RAUH, A. E. and H. D. KING. Investigations on waltzing and shaking rodents of particular genetic types, 1936, 116: 126.

RAVDIN, I. S., C. G. JOHNSTON, J. H. AUSTIN and C. RIEGEL. Studies in absorption from the gall bladder. I. Sodium chloride, 1931, 97: 553.

Studies of gall-bladder function. IV. The absorption of chloride from the bilefree gall bladder, 1932, 99: 638.

RAVDIN, I. S., C. G. JOHNSTON and P. J. MORRISON. The absorption of glucose from chronic jejunal loops, 1933, 105: 82.

The absorption of glucose from the intestine, 1933, 104: 700.

RAVDIN, I. S., C. G. JOHNSTON, C. RIEGEL, J. H. AUSTIN and S. WRIGHT. The anion-cation content of hepatic and gall-bladder bile, 1932, 101: 86.

RAVDIN, I. S., C. G. JOHNSTON, C. RIEGEL and S. L. WRIGHT, JR. Studies of gall-bladder function. VII. The anion-eation content of hepatic and gallbladder bile, 1932, 100: 317.

RAVDIN, I. S. See BERNDT and RAVDIN, 1934, 109: 587.

See DRABKIN and RAVDIN, 1937, 118: 174.

See Johnston, Morrison and Ravdin, 1931, 97: 535.

See Riegel, Elsom and Ravdin, 1935, 112: 669.

See RIEGEL, JOHNSTON and RAVDIN, 1931, 97: 555.

See Johnston, Raydin, Austin and Morrison, 1932, 99: 648.

See RIEGEL, RAVDIN and JOHNSTON, 1932, 99: 656.

RAVIN, A. See LONGWELL and RAVIN, 1936, 117: 453.

RAWLINSON, H. C. See MacIntosh and Rawlinson, 1934, 109: 70.

RAWSON, A. J. See STARR and RAWSON, 1936, 116: 150.

RAY, G. B. and L. A. ISAAC. Chemical studies on the spleen. III. The action of splenic and other tissues upon removal of hemoglobin-methemoglobin solutions, 1930, 91: 377.

RAY, G. B. and C. I. THOMAS. Observations on the inactivation of dialyzed hemoglobin solutions, 1932, 101: 86.

RAY, G. B. and G. H. PAFF. A spectrophotometric study of muscle hemoglobin, 1930, 94: 521.

Spectrophotometric observations on muscle hemoglobin, 1930, 93: 683.

REA, C. E. See Peters, Rea and Visscher, 1933, 105: 79.

READ, L. S. See Chaikoff, Reichert, Read and Mathes, 1935, 113: 306.
See Olmsted and Read, 1934, 109: 303.

REBOUL, J., H. DAVIS and H. B. FRIEDGOOD. Electrical studies of ovulation in the rabbit, 1937, 120: 724.

REBOUL, J., H. B. FRIEDGOOD and H. DAVIS. Electrical detection of ovulation, 1937, 119: 387.

REDFIELD, A. C., E. ROORBACH and F. M. HULL. Resistance to shortening and to the development of tension in muscle, 1937, 119: 387.

REED, C. I. Further studies on the physiological action of irradiated ergosterol, 1933, 105: 83.

The influence of irradiated ergosterol on the metabolic rate of normal dogs, 1932, 101: 86.

REED, C. I. and R. D. BARNARD. Studies on the physiological action of light.
VIII. An attempt to characterize the substance giving increased uric acid values after irradiation of blood, 1930, 93: 146.

REED, C. I., H. DEUTSCH and H. C. STRUCK. The rôle of the thyroid in the calorigenic action of vitamin D, 1936, 116: 126.

REED, C. I., M. L. HATHAWAY and H. C. STRUCK. A study of mineral metabolism in arthritis under treatment with vitamin D, 1935, 113: 108.

REED, C. I. and J. A. LAYMAN. Effects of bilateral vagotomy on blood pressure and heart rate, 1930, 92: 275.

REED, C. I. and L. SEED. Intravenous use of viosterol in parathyroid tetany, 1931, 97: 554.

REED, C. I. and E. A. THACKER. The effect of intravenous and intraperitoneal injections of irradiated ergosterol, 1931, 96: 21.

REED, C. I. See Bachem and Reed, 1930, 93: 629.
See Bachem and Reed, 1931, 97: 86.

See Deutsch, Reed and Struck, 1936, 117: 1.

See Steck, Miller and Reed, 1934, 110: 1.

REED, F. See Collett, Wertenberger, Schott, Lawton, Harlor and Reed, 1935, 113: 29.

REED, L. L., L. B. MENDEL and H. B. VICKERY. The nutritive properties of the "crop-milk" of pigeons, 1932, 102: 285.

REESE, J. D. and M. McQUEEN-WILLIAMS. Prevention of "castration cells" in the anterior pituitary of the male rat by administration of the male sex hormone, 1932, 101: 239.

REEVES, D. L. See GEMMILL, GEILING and REEVES, 1934, 109: 709.
See GEMMILL and REEVES, 1933, 105: 487.

REGAN, J. F. The action of insulin on the motility of the empty stomach, 1933, 104: 90

REGAN, J. F. and B. O. BARNES. The effect of previous hypophysectomy upon the diabetes resulting from pancreatectomy, 1933, 105: 83.

REGAN, J. F. and O. H. HORALL. The physiologic action of dehydrocholic acid, 1932, 101: 268.

REGAN, J. F. See Barnes and Regan, 1933, 105: 4.
 See Barnes, Regan and Bueno, 1933, 105: 559.
 See Bowman, Regan and Still, 1935, 112: 438.

REGEN, E. M. See WILKINS, CALHOUN, PILCHER and REGEN, 1935, 112: 477.

REICHERT, F. L., R. I. PENCHARZ, M. E. SIMPSON, K. MEYER, and H. M. EVANS. Relative ineffectiveness of prolan in hypophysectomized animals, 1932, 100: 157.

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REICHERT, F. L. See Chaikoff, Gibbs, Holtom and Reichert, 1936, 116: 543. See Chaikoff, Holtom and Reichert, 1936, 114: 468.

See Chaikoff, Reichert, Larson and Mathes, 1935, 112: 493.

See Chaikoff, Reichert, Read and Mathes, 1935, 113: 306.

REID, M. A. The action of strychnine on anuran lymph hearts, 1936, 116: 127.

See Pratt and Reid, 1930, 93: 681. See Pratt and Reid, 1932, 101: 85.

See PRATT and REID, 1934, 109: 84.

REID, P. E., A. C. IVY and J. P. QUIGLEY. Spiral propulsion of a bolus in the intestine, 1934, 109: 483.

REINHOLD, J. G. and D. W. WILSON. I. The acid-base composition of hepatic bile, 1934, 107; 378.

The acid-base composition of hepatic bile: II. The changes induced by the injection of hydrochloric acid and inorganic salts, 1934, 107: 388.

The acid-base composition of hepatic bile: III. The effects of the administration of sodium taurocholate, sodium cholate and sodium dehydrocholate (decholin), 1934, 107: 400.

REISINGER, J. A. See Starr, Abbott, Comroe, Elsom and Reisinger, 1933, 105: 90.

REMPEL, B. See Davis, Rosenblueth and Rempel, 1936, 116: 35.

See Derbyshire, Rempel, Forbes and Lambert, 1936, 116: 577.

See Forbes, Renshaw and Rempel, 1937, 119: 309.

See Rosenblueth, Davis and Rempel, 1936, 116: 131, 387.

REMPEL, P. See Forbes, Derbyshire, Rempel and Lambert, 1935, 113: 43.

REMINGTON, J. W. See Gaunt, Remington and Schweizer, 1937, 120: 532.

RENSHAW, B. See Forbes, Renshaw and Rempel, 1937, 119: 309.

REWBRIDGE, A. G., M. T. HANKE and B. HALPERT. Further observations on the function of the gall bladder. Experiments with methylene blue, 1930, 95: 511.

REYNOLDS, S. R. M. Rôle of the ovary in regulating the motility of the uterine fistula, 1931, 97: 554.

Studies on the uterus: I. A method for recording uterine activity in chronic experiments on unanesthetized animals, 1930, 92: 420.

Studies on the uterus: II. Responses of the non-gravid uterus of the unanesthetized rabbit to pituitrin and pitocin, 1930, 92: 430.

Studies on the uterus. V. The influence of the ovary on the motility of the non-gravid uterus of the unanesthetized rabbit, 1931, 97: 706.

Studies on the uterus. VI. The effect of oestrin on the uterine fistula during pseudo-pregnancy, 1931, 98: 230.

The action of ovary-stimulating substance of human urine of pregnancy on uterine motility in the unanesthetized rabbit, 1932, 100: 545.

The effect of certain calcium salts on the rhythmically contracting and quiescent uterine fistula, with observations on the action of posterior pituitary extracts, 1933. 105: 358.

REYNOLDS, S. R. M. and W. M. ALLEN. The action of corpus luteum extracts containing progestin on uterine motility in the unanesthetized rabbit, 1932, 101: 86.

The effect of progestin-containing extracts of corpora lutea on uterine motility in the unanesthetized rabbit with observations on pseudopregnancy, 1932, 102:39.

REYNOLDS, S. R. M. and W. M. FIROR. The effect of corpus luteum extracts in hypophysectomized rabbits, 1934, 109: 87.

Uterine motility in hypophysectomized and in pregnant rabbits, 1933, 104: 331.

REYNOLDS, S. R. M. and S. KAMINESTER. Distention, a stimulus for uterine growth in untreated, ovariectomized rabbits, 1936, 116: 510

Physical and hormonal factors in uterine growth, 1936, 116: 127.

The peripheral motor sympathetic innervation to and within the uterus, 1935, 112: 640.

REYNOLDS, S. R. M. and M. H. FRIEDMAN. Studies on the uterus: III. The activity of the uterine fistula in unanesthetized rabbits following coitus and during pseudo-pregnancy, 1930, 94: 696.

Studies on the uterus: IV. The response of the uterine fistula of the unanesthetized rabbit to the injection of urine from pregnant women, 1930, 94: 705.

REYNOLDS, S. R. M. See ALLEN and REYNOLDS, 1935, 113: 2.

See Cotton, Reynolds and Wiggers, 1933, 105: 25.

See Fagin and Reynolds, 1936, 117: 86.

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See FIROR and REYNOLDS, 1933, 105: 34.

See Sauer, Jett-Jackson and Reynolds, 1935, 111: 250.

See Weinstein, Reynolds and Friedman, 1931, 98: 237.

REZNICHEK, C. G. The effect of Lugol's solution on the metabolic rate of rabbits fed on abnormal human thyroid preparations, 1930, 93: 683.

REZNIKOFF, P. and R. FULLARTON. The action of benzol on granulocytes, 1932, 101: 87.

RHEINBERGER, M. B. and H. H. JASPER. Electrical activity of the cerebral cortex in the unanesthetized cat, 1937, 119: 186.

RHOADS, C. P. A method for explantation of the kidney, 1934, 109: 324.

RHOADS, C. P., A. S. ALVING, A. HILLER and D. D. VAN SLYKE. The function effect of explanting one kidney and removing the other, 1934, 109: 329.

RHOADS, C. P., D. D. VAN SLYKE, A. HILLER and A. S. ALVING. The effects of novocainization and total section of the nerves of the renal pedicle on renal blood flow and function, 1934, 110: 392.

RHOADS, C. P. See Van Slyke, Rhoads, Hiller and Alving, 1934, 109: 336. See Van Slyke, Rhoads, Hiller and Alving, 1934, 110: 387.

RIBEIRO, B. A. See GEMMILL and RIBEIRO, 1933, 103: 367.

RICE, H. A. and A. H. STEINHAUS. Studies in the physiology of exercise. III.

Further studies in the acid base balance in exercised dogs, 1930, 93: 683.

Studies in the physiology of exercise. V. Acid-base changes in the serum of exercised dogs, 1931, 96: 529.

RICE, H. A. See DeYoung, Rice and Steinhaus, 1931, 99: 52.
See Steinhaus, Hoyt and Rice, 1932, 99: 512.

RICE, L. H. See FORBES, BARBEAU and RICE, 1931, 98: 484.

RICE, R. V. See MACHT and RICE, 1937, 119: 366.

RICHARDS, A. N. and A. M. WALKER. Methods of collecting fluid from known regions of the renal tubules of Amphibia and of perfusing the lumen of a single tubule, 1937, 118: 111.

RICHARDS, A. N., A. M. WALKER, C. L. HUDSON and J. P. HENDRIX. Changes in the glomerular filtrate during passage through the tubule in amphibia. II. Urea, inorganic phosphate, uric acid and creatinine, 1934, 109: 87.

RICHARDS, A. N., B. B. WESTFALL and P. A. BOTT. Experimental efforts to learn whether insulin is secreted by the tubule of the mammalian kidney, 1936, 116: 128.

RICHARDS, A. N. See Walker, Hudson, Findley and Richards, 1937, 118: 121.

See Walker, Richards, Hudson, Findley and Kempton, 1934, 109: 107.

RICHARDS, C. H. and H. S. GASSER. After-potentials and recovery curve of C fibers, 1935, 113: 108.

RICHARDS, T. K. See EDWARDS, RICHARDS and DILL, 1931, 98: 352.

R

RICHARDSON, H. B. See SHORR, LOEBEL and RICHARDSON, 1931, 97: 559.

See SHORR, LOEBEL and RICHARDSON, 1932, 101: 92.

See Shorr, Malam and Richardson, 1937, 119: 404.

See SHORR, RICHARDSON and SWEET, 1936, 116: 142.

RICHTER, C. P. Cyclical phenomena produced in rats by section of the pituitary stalk and their possible relation to pseudo-pregnancy, 1933, 106: 80.

Experimental diabetes insipidus: its relation to the anterior and posterior lobes of the hypophysis, 1934, **110**: 439.

Galvanic skin reflex from animals with complete transection of the spinal cord, 1930, 93: 468.

Increased salt appetite in adrenalectomized rats, 1936, 115: 155.

Pregnancy urine given by mouth to gonadectomized rats: its effect on spontaneous activity and on the reproductive tract, 1934, 110: 499.

Pregnancy urine given by mouth to rats: Effect on reproductive tract and on spontaneous activity, 1934, 109: 88.

The primacy of polyuria in diabetes insipidus, 1935, 112: 481.

RICHTER, C. P. and J. F. ECKERT. Further evidence for the primacy of polyuria in diabetes insipidus, 1935, 113: 578.

Increased calcium appetite of parathyroidectomized rats, 1936, 116: 128. RICHTER, C. P. and C. G. HARTMAN. The effect of injection of amniotin on the

RICHTER, C. P. and C. G. HARTMAN. The effect of injection of amniotin on the spontaneous activity of gonadectomized rats, 1934, 108: 136.

RICHTER, C. P. and M. HINES. Experimental production of the grasp reflex in adult monkeys by lesions of the frontal lobes, 1932, 101: 87.

RICHTER, C. P., L. E. HOLT, JR. and B. BARELARE. The effect of self selection of diet—food (protein, carbohydrates and fats), minerals, and vitamins—on growth, activity and reproduction of rats, 1937, 119: 388.

RICHTER, C. P. and G. B. WISLOCKI. Anatomical and behavior changes produced in the rat by complete and partial extirpation of the pituitary gland, 1930, 95: 481.

RICHTER, O. See IVY, RICHTER and KIM, 1932, 101: 59.

RIDDELL, W. H., J. S. HUGHES and J. B. FITCH. The energy metabolism of phosphorus-deficient dairy cattle, 1933, 106: 676.

RIDDLE, O. Studies on the physiology of reproduction in birds. XXVII. The age distribution of mortality in bird embryos and its probable significance, 1930, 94: 535.

Studies on the physiology of reproduction in birds, XXIX. Season of origin as a determiner of age at which birds become sexually mature, 1931, 97: 581.

RIDDLE, O., R. W. BATES and S. W. DYKSHORN. The preparation, identification and assay of prolactin—a hormone of the anterior pituitary, 1933, 105: 191.

RIDDLE, O., R. W. BATES and E. L. LAHR. Prolactin induces broodiness in the fowl, 1935, 111: 352.

RIDDLE, O., R. W. BATES, E. L. LAHR and C. S. MORAN. On the identity of the hormone causing ovulation in the rabbit, 1936, 116: 128.

RIDDLE, O. and P. F. BRAUCHER. Hemoglobin and erythrocyte differences according to sex and season in doves and pigeons, 1934, 108: 554.

Studies on the physiology of reproduction in birds. XXX. Control of the special secretion of the crop-gland in pigeons by an anterior pituitary hormone, 1931, 97: 617.

Studies on the physiology of reproduction in birds. XXXIII. Body size changes in doves and pigeons incident to stages of the reproductive cycle, 1934, 107: 343.

RIDDLE, O., G. CHRISTMAN and F. G. BENEDICT. Differential response of male and female ring doves to metabolism measurement at higher and lower temperatures, 1930, 95: 111.

RIDDLE, O., L. B. DOTTI and G. C. SMITH. Blood sugar and basal metabolism in pigeons following administration of prolactin and cortin, 1937, 119: 389.

RIDDLE, O. and J. KŘÍŽENECKÝ. Studies on the physiology of reproduction in birds. XXVIII. Extirpation of thymus and bursa in pigeons with a consideration of the failure of thymectomy to reveal thymus function, 1931, 97: 343.

RIDDLE, O., E. L. LAHR and R. W. BATES. Effectiveness and specificity of prolactin in the induction of the maternal instinct in virgin rats, 1935, 113: 109.
Prolactin induced activities which express maternal behavior in virgin rats, 1935, 113: 110.

RIDDLE, O., T. C. NUSSMANN and F. G. BENEDICT. Metabolism during growth in a common pigeon, 1932, 101: 251.

RIDDLE, O. and I. POLHEMUS. Studies on the physiology of reproduction in birds. XXXI. Effects of anterior pituitary hormones on gonads and other organ weights in the pigeon, 1931, 98: 121.

RIDDLE, O., G. C. SMITH and F. G. BENEDICT. Seasonal and temperature factors and their determination in pigeons of percentage metabolism change per degree of temperature change, 1934, 107: 333.

Seasonal, endocrine and temperature factors which determine percentage metabolism change per degree of temperature change, 1932, 101: 88.

Studies on the physiology of reproduction in birds, XXXII. Basal metabolism and the temperature factor in brooding ring doves, 1933, 105: 428.

The basal metabolism of the mourning dove and some of its hybrids, 1932, 101: 260.

RIDDLE, O. See Bates, Lahr and Riddle, 1935, 111: 361.

See Bates, RIDDLE and LAHR, 1935, 113: 8, 259.

See Bates, Riddle and Lahr, 1936, 116: 7.

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See BATES, RIDDLE and LAHR, 1937, 119: 610.

See Bates, Riddle, Lahr and Schooley, 1937, 119: 603.

See Lahr, Riddle and Bates, 1935, 113: 84.

See Lahr, Riddle and Bates, 1936, 116: 94.

RIDOUT, J. H. See Best, Huntsman, Ridout and Young, 1935, 113: 11. See Best and Ridout, 1933, 105: 6.

RIECKER, H. H. and M. E. WINTERS. Serum iron determinations applied to the study of experimental anemia, 1930, 92: 196.

RIEDMAN, S. R. The effect of a ketogenic diet on convulsions of experimental origin in cats, 1932, 101: 89.

RIEGEL, C., K. O'S. ELSOM and I. S. RAVDIN. The influence of sodium taurocholate, hepatic bile and gall-bladder bile upon the absorption of oleic acid from the small intestine, 1935, 112: 669.

RIEGEL, C., C. G. JOHNSTON and I. S. RAVDIN. Studies in absorption from the gall bladder. III. Cholesterol and bile salts, 1931, 97: 555.

RIEGEL, C., I. S. RAVDIN and C. G. JOHNSTON. Studies of gall-bladder function. VI. The absorption of bile salts and cholesterol from the bile-free gall bladder, 1932, 99: 656.

RIEGEL, C. See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1931, 97: 553.

See RAVDIN, JOHNSTON, AUSTIN and RIEGEL, 1932, 99: 638.

See RAVDIN, JOHNSTON, RIEGEL, AUSTIN and WRIGHT, 1932, 101: 86.

See RAVDIN, JOHNSTON, RIEGEL and WRIGHT, 1932, 100: 317.

RIES, F. A. and E. U. STILL. On the toxicity of purified bile preparations. II. The neuro-muscular system, 1930, 91: 609.

R

RIES, F. A. See BREWER and RIES, 1933, 106: 247.

See Still, McBean and Ries, 1931, 97: 565.

See STILL, McBEAN and RIES, 1931, 99: 94.

See Teitelbaum and Ries, 1934, 109: 105.

See TEITELBAUM and RIES, 1935, 112: 684.

See Teitelbaum, Ries and Lisansky, 1936, 116: 505.

RILEY, G. A. See Rowe, McManus and Riley, 1934, 109: 90.

RING, G. C. A possible explanation of the increased metabolism of diabetes, 1934, 109: 88.

Adrenalin and the metabolism of exercise, 1931, 97: 375.

An attempt to stimulate the thyroid gland in rats by exposure to cold, 1936, 116: 129.

-Calorigenic action of fat and carbohydrate in pancreatic diabetes, 1935, 112: 124.

The specific dynamic action of protein in pancreatic diabetes, 1936, 115: 419.

RING, G. C., S. DWORKIN and Z. M. BACQ. Basal metabolism after thyroxin in sympathectomized animals, 1931, 97: 315.

RING, G. C. and C. W. HAMPEL. Effects of adrenal medulla and thyroid on the respiratory metabolism of pancreatic diabetes, 1933, 104: 298.

Protein metabolism in pancreatic diabetes, 1933, 105: 300.

The liver and the respiratory metabolism of pancreatic diabetes, 1933, 105: 306. The respiratory metabolism of pancreatic diabetes in cats, 1932, 102: 460.

RING, G. C. See Schneider and Ring, 1929, 91: 103.

RIOCH, D. McK. and A. ROSENBLUETH. Inhibition from the cerebral cortex, 1935, 113: 663.

Inhibition of flexor reactions on homolateral cortical stimulation, 1935, 113: 110.

RIOCH, D. McK. See Morison and Rioch, 1936, 116: 111.

See Morison and Rioch, 1937, 120: 257.

See Rosenblueth and Rioch, 1933, 103: 681.

See Rosenblueth and Rioch, 1933, 104: 519.

See Rosenblueth and Rioch, 1933, 105: 85.

See Rosenblueth and Rioch, 1933, 106: 365.

See Pinkston, Bard and Rioch, 1934, 109: 515.

RIOCH, J. McK. The neural mechanism of mastication, 1934, 108: 168.

RIOCH, J. McK. and E. F. LAMBERT. The jaw-jerk and its afferent path, 1934, 108: 50.

RISEMAN, J. R. F. See Ernstene, Riseman, Stern and Alexander, 1935, 111:

RISK, R. R. See Dragstedt, Risk and Johnson, 1933, 105: 643.

RISKIN, A. M. See Barnes, Carlson and Riskin, 1931, 98: 86.

RITTENBERG, D. See Shapiro, Koster, Rittenberg and Schoenheimer, 1936, 117: 525.

RIZZOLO, A. Motor disturbances consequent upon experimental lesions of the cerebral cortex, 1930, 95: 584.

ROBB, J. S. Concerning the distribution of Purkinje substance and certain physiological implications dependent thereon, 1936, 116: 129.

The distribution of the Purkinje substance, 1936, 116: 130.

ROBB, J. S., M. S. DOOLEY, J. G. F. HISS and R. C. ROBB. The effect of ouabain upon the type of electrocardiogram resulting from specific muscle lesions, 1935, 113: 110. ns. II.

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bain ons, ROBB, J. S. and J. G. F. HISS. Experimental interference with conduction in the ventricle, 1934, 109: 89.

ROBB, J. S. and R. C. ROBB. Experimental cardiac muscle lesions in the monkey, 1935, 113: 111.

The conducting system, 1937, 119: 390.

The distribution of the coronary vessels to the ventricular muscle bands, 1935, 113: 111.

The "electrical axis" of the heart, 1937, 119: 390.

The excitatory process in the mammalian ventricle, 1936, 115: 43.

The pathway of the excitatory process in the mammalian ventriele, 1935, 113: 111.

ROBB, P. See PHILLIPS and ROBB, 1934, 109: 82.

ROBB, P. D. See Scharles, Robb and Salter, 1935, 111: 130.

ROBB, R. C. See ROBB, DOOLEY, HISS and ROBB, 1935, 113: 110.

See Robb and Robb, 1935, **113**: 111. See Robb and Robb, 1936, **115**: 43.

See ROBB and ROBB, 1937, 119: 390.

ROBERTS, A. C. A study of the speed of absorption following the ingestion of glucose and of sucrose, 1936, 117: 257.

ROBERTS, A. C. and C. E. LEESE. Bulbocapnine studies on peripheral behavior, 1933, 105: 83.

ROBERTS, A. C. See LEESE and ROBERTS, 1935, 113: 86.

ROBERTS, G. M. and L. A. CRANDALL, JR. The rôle of the portal system in the regulation of circulating blood volume, 1933, 106: 423.

See Crandall and Roberts, 1932, 101: 24. See Crandall and Roberts, 1935, 113: 31.

See Crandall and Roberts, 1936, 117: 318.

ROBERTS, R. G. and H. J. HORVITZ. Ammonolyzed adrenaline conjugates and their pressor action in dogs, 1937, 119: 391.

ROBERTS, R. G. See LARRAIN, ROBERTS and KUNDE, 1936, 115: 662.

ROBERTSON, K. and J. K. W. FERGUSON. The distribution of carbonic anhydrase in some invertebrates, 1936, 116: 130.

ROBINOW, M., R. A. WOODBURY and W. F. HAMILTON. Blood pressure in the new born, 1937, 119: 392.

ROBINSON, A. See ORENT-KEILES, ROBINSON and McCollum, 1937, 119: 651.

ROBINSON, E. H. See KEMP, COPPÉE and ROBINSON, 1937, 120: 304.
See KEMP and ROBINSON, 1937, 120: 316.

ROBINSON, E. J. See HEGNAUER and ROBINSON, 1936, 116: 73.

ROBINSON, J. B. See CLARK, ROBINSON and Schiff, 1937, 119: 288.

ROBINSON, J. B. See CLARK, ROBINSON and Schiff, 1931, 119: 200.

ROBSCHEIT-ROBBINS, F. S., G. B. WALDEN and G. H. WHIPPLE. Blood regeneration in severe anemia, 1935, 113: 467.

ROBSCHEIT-ROBBINS, F. S. and G. H. WHIPPLE. Blood regeneration in severe anemia: XVII. Influence of manganese, zinc, copper, aluminum, iodine and phosphates, 1930, 92: 378.

Blood regeneration in severe anemia: XIX. Influence of spinach, cabbage, onions and orange juice, 1930, 92: 400.

Hemoglobin production factors in normal livers of domestic animals, 1934, 108: 279.

Reserve store of hemoglobin producing substances in growing dogs as influenced by diet, 1935, 112: 27.

ROBSCHEIT-ROBBINS, F. S. See Hawkins, Sribhishaj, Robscheit-Robbins and Whipple, 1931, 96: 463.

ROBSCHEIT-ROBBINS, F. S.

See Taylor, Manwell, Robscheit-Robbins and Whipple, 1930, 92: 408.

See Whipple and Robscheit-Robbins, 1930, 92: 362, 388.

See Whipple and Robscheit-Robbins, 1934, 108: 270.

See Whipple and Robscheit-Robbins, 1936, 115: 651.

ROBSON, G. M. See Jones and Robson, 1933, 103: 338.

RODBARD, S. See Katz and Rodbard, 1937, 119: 346.

RODERICK, L. M. A problem in the coagulation of the blood. "Sweet clover disease of cattle," 1931, 96: 413.

ROE, J. H. and G. R. COWGILL. The metabolic fate of galactose in adult dogs and rabbits, 1935, 111: 530.

ROE, J. H., A. GILMAN and G. R. COWGILL. A study of the oxidation that occurs in the dog after the ingestion of galactose, 1935, 110: 531.

ROEPKE, M. H. See HENDERSON and ROEPKE, 1933, 106: 441.

ROGERS, F. T. Studies of blood density in man during paroxysms of fever induced by typhoid vaccine and by malaria, 1937, 119: 392.

On the absence of hunger pain in man after the resection of the lower two-thirds of the stomach, 1933, 105: 84.

ROGERS, F. T. and C. L. MARTIN. The effects of intense x-ray irradiation of the suprarenal gland, 1930, 93: 684.

The effects of x-rays on the adrenal gland, 1930, 93: 219.

ROGOFF, J. See Stevens and Rogoff, 1930, 93: 691.

ROGOFF, J. M. Experimental chronic adrenal insufficiency (Addison's disease) in animals, 1933, 105: 84.

ROGOFF, J. M., B. O. BARNES, V. B. SCOTT and H. W. FERRILL. Further studies on the effects of partial adrenalectomy on experimental diabetes, 1934, 109: 89.

ROGOFF, J. M. and H. W. FERRILL. Relation of the adrenal glands to experimental pancreatic diabetes, 1936, 116: 131.

ROGOFF, J. M. and E. N. NIXON. Epinephrine output from the adrenal glands in experimental diabetes, 1937, 120: 440.

ROGOFF, J. M., P. WASSERMAN and R. HOECKER. On the nervous mechanism of epinephrine secretion, 1931, 97: 555.

ROGOFF, J. M. See BUENO, BARNES and ROGOFF, 1935, 113: 21.

See Cohen, Rudolph and Rogoff, 1933, 105: 21.

See Cohen, Rudolph, Wasserman and Rogoff, 1933, 106: 414.

See Cowgill, Rosenberg and Rogoff, 1930, 93: 641.

See Cowgill, Rosenberg and Rogoff, 1930, 95: 537.

See Cowgill, Rosenberg and Rogoff, 1931, 96: 372.

See Cowgill, Rosenberg and Rogoff, 1931, 98: 589.

See FERRILL, ROGOFF and BARNES, 1935, 113: 41.

See Ferrill, Rogoff, Barnes and Scott, 1934, 109: 35.

See Schour and Rogoff, 1936, 115: 334.

See Scott, Ferrill, Rogoff and Barnes, 1934, 109: 95.

See Stewart and Rogoff, 1929, 91: 254.

ROMPF, J. H. See Hamilton and Rompf, 1932, 102: 559.

ROOME, N. W. The cardiac output in hyperventilation by external alternating pressure, 1933, 104: 142.

ROORBACH, E. See REDFIELD, ROORBACH and HULL, 1937, 119: 387.

ROOT, W. S. and P. BARD. Erection in the cat following removal of lumbosacral segments, 1937, 119: 392. ROPES, M. Chemical and physical characteristics of synovial fluid mucin, 1935, 113: 112.

ROPSHAW, H. J. Melanogenesis with special reference to sulhydrils and protamines, 1933, 103: 535.

ROSE, D. L. See Huddleston and Rose, 1935, 113: 67.

ROSE, M. I. See Cook and Rose, 1930, 92: 240.

ROSE, W. B. and C. J. STUCKY. Studies in the physiology of vitamins. VIII.

The effect of parathormone on normal and vitamin B-deficient rats, 1930, 91: 513.

ROSE, W. B., C. J. STUCKY and G. R. COWGILL. Studies in the physiology of vitamins: X. Further contributions to the study of gastric motility in vitamin B deficiency, 1930, 91: 531.

Studies in the physiology of vitamins: XI. The effect of insulin on gastric atony in vitamin B deficiency, 1930, 91: 547.

Studies in the physiology of vitamins: XII. The effect of parathormone on gastric motility in vitamin B-deficient and normal dogs, 1930, 91: 554.

Studies in the physiology of vitamins. XIII. The relation of gastric motility to anhydremia in vitamin B-deficient dogs, 1930, 92: 83.

ROSE, W. B., C. J. STUCKY, G. R. COWGILL and L. B. MENDEL. Studies in the physiology of vitamins. IX. Hemoglobin, sugar and chloride changes in the blood of vitamin B-deficient rats, 1930, 91: 520.

ROSE, W. B., C. J. STUCKY, L. B. MENDEL and G. R. COWGILL. The relation between anorexia, anhydremia and gastric atony in dogs deprived of water, 1931, 96: 132.

ROSEBOOM, B. B. and J. W. PATTON. The digestion and absorption of raw starch in dogs, 1932, 100: 178.

ROSEN, S. H. and D. MARINE. Immunity to iodothyroglobulin does not affect its physiological action, 1937, 120: 121.

ROSEN, S. H. See Marine and Rosen, 1934, 107: 677.

ROSENBERG, H. A. See Cowgill, Rosenberg and Rogoff, 1930, 95: 537. See Cowgill, Rosenberg and Rogoff, 1931, 96: 372.

See Cowgill, Rosenberg and Rogoff, 1931, 98: 589.

ROSENBERG, H. S. See Cowgill, Rosenberg and Rogoff, 1930, 93: 641.

ROSENBLUETH, A. Central excitation and inhibition in reflex changes of heart rate, 1934, 107: 293.

The action of certain drugs on the nictitating membrane, 1932, 100: 443.

The chemical mediation of autonomic nervous impulses as evidenced by summation of responses, 1932, 102: 12.

The mode of action of adrenin, 1932, 101:89.

The mode of action of adrenin and the quantitation of adrenin by biological methods, 1932, 101: 149.

The sensitization by cocaine of gastric and uterine smooth muscle to the inhibitory action of adrenin, 1931, 98: 186.

ROSENBLUETH, A. and G. H. ACHESON. Does the nictitating membrane of the cat have a refractory period, 1937, 120: 514.

ROSENBLUETH, A. and P. BARD. The innervations and functions of the nictitating membrane in the cat, 1932, 100: 537.

ROSENBLUETH, A. and W. B. CANNON. A further study of vasodilators in sympathectomized animals, 1934, 108: 599.

Direct electrical stimulation of denervated autonomic effectors, 1934, 108: 384. Some circulatory phenomena disclosed by ergotoxine, 1933, 105: 373.

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ROSENBLUETH, A. and W. B. CANNON.

Studies on the conditions of activity in endocrine organs. XXVIII. Some effects of sympathin on the nictitating membrane, 1932, 99: 398.

R

The adequacy of the chemical theory of smooth muscle excitation, 1936, 116: 414.

The chemical mediation of sympathetic vasodilator nerve impulses, 1935, 112: 33.

ROSENBLUETH, A., H. DAVIS and B. REMPEL. The electrograms of the pilomotor muscles, 1936, 116: 131.

The physiological significance of the electric responses of smooth muscle, 1936, 116: 387.

ROSENBLUETH, A., A FORBES and E. LAMBERT. Electric responses in the submaxillary gland, 1933, 105: 508.

ROSENBLUETH, A. and N. E. FREEMAN. The reciprocal innervation in reflex changes of heart rate, 1931, 98: 430.

ROSENBLUETH, A. and R. GAYET. The failure of diet to influence the adrenalin content of the adrenal glands, 1932, 100: 341.

ROSENBLUETH, A., C. LEESE and E. LAMBERT. Electrical potentials in smooth muscle, 1933, 103: 659.

ROSENBLUETH, A., D. B. LINDSLEY and R. S. MORISON. A study of some decurarizing substances, 1936, 115: 53.

ROSENBLUETH, A. and J. V. LUCO. A study of denervated mammalian skeletal muscle, 1937, 120: 781.

ROSENBLUETH, A. and R. S. MORISON. A quantitative study of the production of sympathin, 1934, 109: 209.

Curarization, fatigue and Wedensky inhibition, 1937, 119: 236.

The electric responses of the facial muscles, 1937, 120: 384.

ROSENBLUETH, A. and T. ORTIZ. The crossed respiratory impulses to the phrenic, 1936, 117: 495.

ROSENBLUETH, A. and R. A. PHILLIPS. Sympathin and the hepatic sympathomimetic hormone in the dog, 1932, 102: 332.

ROSENBLUETH, A. and D. McK. RIOCH. Electrical excitation of multifibered nerves, 1933, 104: 519.

Electrical excitation of multifibered nerves, 1933, 105: 85.

Temporal and spatial summation in autonomic systems, 1933, 106: 365.

The nature of the responses of smooth muscle to adrenin and the augmentor action of cocaine for sympathetic stimuli, 1933, 103: 681.

ROSENBLUETH, A. and T. SCHLOSSBERG. The sensitization of vascular response to "sympathin" by cocaine and the quantitation of "sympathin" in terms of adrenalin, 1931, 97: 365.

ROSENBLUETH, A. and H. G. SCHWARTZ. Reflex responses of the nictitating membrane, 1935, 112: 422.

Reflex responses of the nictitating membrane, 1935, 113: 112.

ROSENBLUETH, A. and F. A. SIMEONE. The interrelations of vagal and accelerator effects on the cardiac rate, 1934, 110: 42.

ROSENBLUETH, A. See Acheson, Rosenblueth and Partington, 1936, 115: 308. See Bacq and Rosenblueth, 1934, 108: 46.

See Cannon and Rosenblueth, 1933, 104: 557.

See Cannon and Rosenblueth, 1935, 112: 268.

See Cannon and Rosenblueth, 1935, 113: 251.

See Cannon and Rosenblueth, 1936, 116: 25, 408.

See Cannon and Rosenblueth, 1937, 119: 221, 285.

ROSENBLUETH, A.

See Davis, Rosenblueth and Rempel, 1936, 116: 35.

See FREEMAN and ROSENBLUETH, 1931, 98: 454.

See LAMBERT and ROSENBLUETH, 1935, 114: 147.

See LIU and ROSENBLUETH, 1935, 113: 555.

See Pinkston, Partington and Rosenblueth, 1936, 115: 711.

See RIOCH and ROSENBLUETH, 1935, 113: 110, 663.

See Simeone and Rosenblueth, 1934, 110: 399.

ROSENFELD, M. and F. F. SNYDER. Intrauterine respiration in the rabbit and human and its significance in relation to the breathing of amniotic fluid, 1937, 119: 393.

ROSENFELD, M. See SNYDER and ROSENFELD, 1936, 116: 147.

See SNYDER and ROSENFELD, 1937, 119: 153, 406.

ROSENFELD, S. and E. P. DURRANT. Effect of ovarian substances on excised rat uterus, 1932, 99: 552.

ROSENFELD, S. See DURRANT and ROSENFELD, 1931, 98: 153.

ROSENFELD, S., JR. Relation of rate of rhythmic contractions of rat uterus to oestrus, 1930, 93: 684.

ROSENMAN, E. See Necheles, Frank, Kaye and Rosenman, 1936, 114: 695.

ROSENTHAL, S. See KAHLER, DE EDS, ROSENTHAL and VOEGTLIN, 1929, 91: 225.

ROSENTHAL, S. J. See TAYLOR and ROSENTHAL, 1930, 93: 692.

ROSENTHAL, S. M. and R. D. LILLIE. Functional and histologic studies of the effect of fat ingestion upon the normal and damaged liver, 1931, 97: 131.

ROSS, J. F. Is the transmission of the nerve impulses to the cat's uterus electrical or chemical, 1937, 119: 527.

The effect of piperidinomethylbenzodioxane (933F) and yohimbine upon the action of certain drugs and ions on the nictitating membrane, 1936, 116: 574.

ROTH, G. M. The distribution of anhidrosis following interruption of various sympathetic pathways in man, 1937, 119: 393.

ROTTERSMAN, W. See Jochim, Bohning, Rottersman and Gralnick, 1935, 113: 71

ROTTSCHAFER, G. See BEAN and ROTTSCHAFER, 1937, 119: 268.

ROUTT, M. V. See Leichsenring, Biester, Hönig, Furnas, Foss and Routt, 1932, 99: 391.

ROWE, A. W. The metabolism in pregnancy. VII. The blood morphology, 1931, 96: 112.

Vital function levels in normal pregnancy, 1930, 93: 684.

ROWE, A. W. and W. C. BOYD. The fetal influence on the basal metabolic rate, 1931, 97: 556.

ROWE, A. W., D. GALLIVAN and H. MATTHEWS. The metabolism in pregnancy: IV. The nitrogen metabolism, 1930, 95: 592.

The metabolism in pregnancy: V. The carbohydrate metabolism, 1931, 96: 94. The metabolism in pregnancy: VI. The respiratory metabolism and acid elimination, 1931, 96: 101.

ROWE, A. W., M. McMANUS and A. J. PLUMMER. The hepatic influence on "galactose and levulose tolerance, 1933, 105: 85.

ROWE, A. W., M. A. McMANUS and G. A. RILEY. The metabolism of levulose.
V. Influence of pregnancy, 1934, 109: 90.

ROWE, A. W., A. J. PLUMMER and M. McMANUS. The metabolism of levulose:
I. Some general considerations on provocative levulosuria, 1932, 101: 90.

ROWLAND, A. F. See Crile, Glasser, Telkes and Rowland, 1932, 101: 26. See Crile, Telkes and Rowland, 1931, 97: 516.

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308

ROWNTREE, L. G., J. H. CLARK and A. M. HANSON. The biological effects of thymus extract, 1934, 109: 90.

ROWNTREE, L. G., J. H. CLARK, A. STEINBERG, N. H. EINHORN and A. M. HANSON. Studies on the thymus and pineal glands, 1936, 116: 133.

The rôle of the thymus and pineal glands in growth and development, 1936, 116: 132.

ROY, R. S. See Keller, Chase and Roy, 1937, 119: 348.

See Keller, Roy and Chase, 1936, 116: 89, 91.

See Keller, Roy and Chase, 1937, 118: 720.

ROY, W. R. See McHargue and Roy, 1930, 92: 651.

See McHargue and Roy, 1931, 99: 221.

ROZEN, J. S. and G. L. PERUSSÉ, JR. The effect of calcium and magnesium ions on the gastric hunger contractions, 1929, 91: 298.

ROZEN, J. S. See Perussé and Rozen, 1929, 91: 291.

RUBENSTEIN, B. B. Human ovulation. Exploratory studies, 1936, 116: 133.

The constancy of basal metabolism and pulse rate in relation to body temperature and the menstrual cycle, 1937, 119: 393.

The relation of cyclic changes in human vaginal smears to body temperatures and basal metabolic rates, 1937, 119: 635.

RUBIN, M. A. and H. HOAGLAND. Some recent evidence for a humoral mechanism for peripheral sensory inhibition (adaptation), 1936, 116: 133.

RUBIN, M. A. See HOAGLAND, RUBIN and CAMERON, 1937, 120: 559.

RUCH, T. C. Evidence of the non-segmental character of spinal reflexes from an analysis of the cephalad effects of spinal transection (Schiff-Sherrington phenomenon), 1936, 114: 457.

RUCH, T. C. and J. F. FULTON. Somatic sensory function of the cerebral cortex in the monkey and chimpanzee, 1936, 116: 134.

RUCH, T. C., J. F. FULTON and S. KASDON. Further experiments on the somatosensory functions of the cerebral cortex in the monkey and chimpanzee, 1937, 119: 394.

RUCH, T. C. and J. W. WATTS. Reciprocal changes in reflex activity of the fore limbs induced by post-brachial "cold-block" of the spinal cord, 1934, 110: 362. The effect of post-brachial spinal cord transection on the flexor and extensor

reflexes of the forelimbs, 1933, 105: 86.

The source of the impulses underlying the effects of post-brachial transection of the spinal cord upon fore limb reflexes, 1934, 109: 91.

RUCH, T. C. See Mowrer, Ruch and Miller, 1936, **114**: 423. See Zuckerman and Ruch, 1934, **109**: 116.

RUDOLPH, J. A. See Cohen, Rudolph and Rogoff, 1933, 105: 21.

See Cohen, Rudolph, Wasserman and Rogoff, 1933, 106: 414.

RUDOLPH, L. and A. C. IVY. On the coordinating mechanism of the dog's uterus, 1931, 97: 556.

RUDSER, D. See Talbert, Saiki, Borman, Thompson, Rudser and Bergmeyer, 1930, 93: 692.

RUNDQUIST, E. A. and C. J. BELLIS. Respiratory metabolism of active and inactive rats, 1933, 106: 670.

RUSHTON, W. A. H. Excitable substances in the nerve-muscle complex, 1930, 93: 685.

Lack of isochronism between muscle and nerve, 1931, 97: 557.

RUSCH, H. P. Inhibitory action of testosterone on the prostatic changes produced in mice with estrin, 1937, 119: 395.

RUSSELL, J. and T. E. BOYD. The sedimentation of erythrocytes suspended in lymph, 1932, 99: 424.

RUSSELL, J. A. and L. L. BENNETT. Carbohydrate storage and maintenance in the hypophysectomized rat, 1937, 118: 196.

RUSSELL, J. A. and G. T. CORI. A comparison of the metabolic effects of subcutaneous and intravenous epinephrine injections in normal and hypophysectomized rats, 1937, 119: 167.

RUSSELL, W. C. See McDonald and Russell, 1931, 97: 386.

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RYNEARSON, E. H. See SHEARD, RYNEARSON and CRAIG, 1931, 97: 558.

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SAAM, H. G., JR. See Hamilton, Spradlin and Saam, 1932, 100: 587.

SACKS, J. Adenosine triphosphate in recovery from muscular contraction, 1937, 119: 395.

Epinephrine on muscle and liver glycogen, 1931, 97: 557.

The effect of epinephrine on muscle and liver glycogen, 1931, 97: 467.

SACKS, J., A. C. IVY, J. P. BURGESS and J. E. VANDOLAH. Histamine as the hormone for gastric secretion, 1932, 101: 331.

SACKS, J. and W. C. SACKS. Blood and muscle lactic acid in the steady state, 1937, 118: 697.

Carbohydrate changes during recovery from muscular contraction, 1935, 112: 565.

Carbohydrate changes during recovery from muscular contractions, 1935, 113:

On the chemical changes in stimulated mammalian muscle, 1933, 105: 86.

The functions of phospho-creatinine in mammalian muscle, 1934, 109: 92.

The fundamental chemical changes in contracting mammalian muscle, 1933, 105: 151.

The fundamental chemical changes in contracting mammalian muscle. II.

Changes in lactic acid, phosphocreatine and hexosephosphate in stimulated muscles of rats, 1933, 105: 687.

The resynthesis of phosphocreatine after muscular contraction, 1935, 112: 116.

The resynthesis of phosphocreatine after muscular contraction, 1935, 113: 113.

The rôle of phosphocreatine in the fundamental chemical changes in contracting mammalian muscle, 1934, 108: 521.

SACKS, J., W. C. SACKS and J. R. SHAW. Carbohydrate and phosphorus changes in prolonged muscular contraction, 1936, 116: 135.

Carbohydrate and phosphorus changes in prolonged muscular contractions, 1937, 118: 232.

SACKS, W. C. See SACKS and SACKS, 1933, 105: 86, 151, 687.

See Sacks and Sacks, 1934, 108: 521.

See Sacks and Sacks, 1934, 109: 92.

See Sacks and Sacks, 1935, 112: 116, 565.

See Sacks and Sacks, 1935, 113: 113, 114.

See Sacks and Sacks, 1937, 118: 697.

See SACKS, SACKS and SHAW, 1936, 116: 135.

See SACKS, SACKS and SHAW, 1937, 118: 232.

SAHYUN, M., R. SIMMONDS and H. WORKING. The effect of diet on the distribution of glycogen in the skeletal muscle of the rat, 1934, 108: 708.

SAHYUN, M. See Hall, Field, Sahyun, Cutting and Tainter, 1933, 106: 432.
SAIKI, A. K., G. OLMANSON and G. A. TALBERT. Simultaneous study of the constituents of the sweat, urine and blood, also gastric acidity and other manifestations resulting from sweating. IX. Uric and lactic acids, 1932,

100: 328.

SAIKI, A. K. See Talbert, Saiki, Borman, Thompson, Rudser and Bergmeyer, 1930, 93: 692.

See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

SAIKI, S. Relation of the hypophysis and ovaries to experimentally-induced uterine bleeding in monkeys, 1932, 100: 8.

SALISBURY, G. W. See ASPELL and SALISBURY, 1933, 103: 595.

SALTER, W. T. The enzymic synthesis from thyroid peptone of an artificial protein which relieves myxedema, 1935, 113: 114.

See DRURY and SALTER, 1934, 107: 406.

See Scharles, Robb and Salter, 1935, 111: 130.

SAMMET, J. F. See Huggins and Sammet, 1933, 105: 56.

SAMOJLOFF, A. The extra systolic impulse of the ganglion of Limulus heart, 1930, 93: 186.

SAMPSON, J. See DUKES and SAMPSON, 1936, 116: 39.

See Dukes and Sampson, 1937, 119: 299.

SAMPSON, J. J. Study of depth temperatures in artificial fever and cooled air chambers with especial reference to cooling effect of circulating blood, 1936, 116: 136.

Study of depth temperatures in artificial fevers and cooling air chambers with especial reference to cooling effect of the circulating blood, 1936, 117: 708.

SAMPSON, W. L. See MOLITOR and SAMPSON, 1937, 119: 377.

SAMSON, P. C. The continuous intravenous administration of epinephrine and glucose in dogs: further observations, 1933, 103: 255.

SAMSON, P. C. and H. R. D. JACOBS. Some chemical effects from constant intravenous epinephrine injection in dogs, 1932, 99: 433.

SAMUEL, H. C. and E. B. CARMICHAEL. Some studies on the clotting time of rabbit blood following intravenous administration of ricin, 1936, 116: 136.

SAMUELS, L. T., H. F. SCHOTT and H. A. BALL. The relation of the hypophysis and adrenal cortex to the removal of excess glucose from the blood of rats, 1937, 120: 649.

SAMUELS, L. T. See Moore and Samuels, 1931, 96: 278.

SANDBLOM, P. and W. VOEGTLIN. The effect of cholecystochinin on the resistance to the flow of bile into the duodenum, 1934, 109: 92.

SANDBLOM, P., W. L. VOEGTLIN and A. C. IVY. The effect of cholecystokinin on the choledochoduodenal mechanism (sphineter of Oddi), 1935, 113: 175.

SANDERS, G. See Amberson, Parpart and Sanders, 1931, 97: 154.

SANDIFORD, I., T. WHEELER and W. M. BOOTHBY. Metabolic studies during pregnancy and menstruation, 1931, 96: 191.

SANFORD, H. N. See Crane and Sanford, 1937, 118: 703.

SANGER, G. See Edwards and Sanger, 1933, 105: 29.

SAPHIR, O. See KATZ and SAPHIR, 1933, 104: 253.

See Soskin and Saphir, 1931, 97: 563.

See Soskin and Saphir, 1932, 101: 573.

SAPIRSTEIN, M. R., R. C. HERMAN and G. B. WALLACE. A study of aftercontraction, 1937, 119: 549.

SARUK, F. S. See Kunde, Becker, Saruk and Kearney, 1934, 109: 65.

SASLOW, G. Oxygen consumption and respiratory quotient of unstimulated caffeinized muscle, 1937, 119: 396.

Recovery heat production of caffeinized frog muscles, 1936, 116: 137.

SAUER, J. J., C. E. JETT-JACKSON and S. R. M. REYNOLDS. Reactivity of the uterus to presacral nerve stimulation and to epinephrine, pituitrin and pilocarpine administration during certain sexual states in the anesthetized rabbit, 1935, 111: 250. SAUL, L. J. and F. ALEXANDER. The human spirogram, 1937, 119: 396.

SAUL, L. J. See Davis, Derbyshire, Lurie and Saul, 1934, 107: 311.

See Davis, Derbyshire and Saul, 1933, 105: 27. See Davis and Saul, 1932, 101: 28.

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See Gerard, Marshall and Saul, 1934, 109: 38.

SAVAGE, M. See Sherwood, Savage and Hall, 1933, 105: 241.

SAWYER, M. E. Mack. Eye reactions in pancreatic diabetes, 1933, 106: 491.

SAWYER, M. E. Mack. and M. G. BROWN. The effect of thyroidectomy and thyroxine on the response of the denervated heart to injected and secreted adrenine, 1935, 110: 620.

SAWYER, M. E. Mack. and T. SCHLOSSBERG. Studies of homeostasis in normal, sympathectomized and ergotaminized animals. I. The effect of high and low temperatures, 1933, 104: 172.

SAWYER, M. E. Mack., T. SCHLOSSBERG and E. M. BRIGHT. Studies of homeostasis on normal and sympathectomized animals. II. The effect of anoxemia, 1933, 104: 184.

SAWYER, M. E. Mack. See Freeman, Morison and Sawyer, 1933, 104: 628.
See Schlossberg and Sawyer, 1933, 104: 195.
See Schlossberg, Sawyer and Bixby, 1933, 104: 190.

SAWYER, M. M. and T. SCHLOSSBERG. The effect of adrenalin instillation on the iris of normal animals, 1933, 103: 153.

SCAMMON, R. E. A quantitative comparison of the growth in chemical composition and structural mass of the human body before birth, 1930, 93: 685.

SCANTLEBURY, R. E. See Frick, Scantlebury and Patterson, 1935, 113: 47. See Patterson, Scantlebury and Gijsbers, 1935, 113: 104.

SCHAFFER, N. K. See LEE and SCHAFFER, 1933, 105: 66.

SCHAMP, H. M. See ORTH, NEILD, SCHAMP, SULLIVAN and BURGE, 1936, 116: 116. SCHARLES, F. H., P. D. ROBB and W. T. SALTER. Liver amylase: the effect of nutrition and of hormones, 1935, 111: 130.

SCHARLES, F. H. See Burns, Scharles and Aitken, 1931, 97: 233.

SCHAUER, G. See MENDLOWITZ and SCHAUER, 1937, 119: 749.

SCHEAR, E. W. E. The effect of temperature on the content of sugar in the blood of the albino rat, 1932, 99: 555.

SCHELLING, V. Study on the metabolism of glutathione, 1932, 102: 714.

SCHIEBEL, H. See GEMMILL, BOOTH, DETRICK and SCHIEBEL, 1931, 96: 265.

SCHIFF, L. J. See CLARK, ROBINSON and SCHIFF, 1937, 119: 288.

SCHIFFER, A. L. and L. B. NICE. Double adrenalectomy and the oestrous cycle in the white rat, 1930, 95: 292.

SCHLOMOVITZ, B. H. and A. B. THOMPSON. The oxygen cost of a clinical function test, 1935, 113: 115.

SCHLOMOVITZ, B. H., A. B. THOMPSON and L. G. GLICKMAN. Excess oxygen usage reaction of silicotic individuals in exercise, 1935, 113: 115.

SCHLOSSBERG, T. Simultaneous internal and external stimulation of the iris by adrenin, 1932, 101: 90.

Simultaneous internal and external stimulation of the iris by adrenin, 1932, 102: 71.

SCHLOSSBERG, T. and M. E. Mack. SAWYER. Studies of homeostasis in normal, sympathectomized and ergotaminized animals. IV. The effect of hemorrhage, 1933, 104: 195.

SCHLOSSBERG, T., M. E. Mack. SAWYER and E. M. BIXBY. Studies of homeostasis in normal, sympathectomized and ergotaminized animals. III. The effect of insulin, 1933, 104: 190. SCHLOSSBERG, T. See ROSENBLUETH and SCHLOSSBERG, 1931, 97: 365.

See SAWYER and SCHLOSSBERG, 1933, 103: 153.

See SAWYER and SCHLOSSBERG, 1933, 104: 172.

See Sawyer, Schlossberg and Bright, 1933, 104: 184.

SCHLUTZ, F. W., A. B. HASTINGS and M. MORSE. Certain blood changes associated with physical exhaustion in the normal dog, 1935, 111: 622.

Changes in certain blood constituents produced by partial inanition and muscular fatigue, 1933, **104**: 669.

SCHLUTZ, F. W., M. MORSE and A. B. HASTINGS. Acidosis as a factor of fatigue in dogs, 1935, 113: 595.

SCHLUTZ, F. W. See WILDER and SCHLUTZ, 1931, 96: 54.

SCHULTZ, R. V. See SMITH and SCHULTZ, 1930, 94: 107.

SCHULTZ, W. H. A critical experimental study of the phenolic content of adrenal glands and of acid extracts of adrenal tumors, 1930, 93: 686.

SCHMIDT, C. F. Carotid sinus reflexes and the chemical regulation of respiration, 1932, 101: 91.

Carotid sinus reflexes to the respiratory center: I. Identification, 1932, 102: 94. Carotid sinus reflexes to the respiratory center: II. Attempt at evaluation, 1932, 102: 119.

The intrinsic regulation of the circulation in the hypothalamus of the eat, 1934, 110: 137.

The intrinsic regulation of the circulation in the parietal cortex of the cat, 1935. 113: 115.

The intrinsic regulation of the circulation in the parietal cortex of the cat, 1936, 114: 572.

SCHMIDT, C. F. and J. M. HAYMAN, JR. A note upon lymph formation in the dog's kidney and the effect of certain diuretics upon it, 1929, 91: 157.

SCHMIDT, C. F. and J. C. PIERSON. The intrinsic regulation of the blood vessels of the medulla oblongata, 1934, 108: 241.

The intrinsic regulation of the circulation of the medulla oblongata, 1934, 109: 92.

SCHMIDT, C. F. and A. M. WALKER. A thermostromuhr operating on storage battery current, 1936, 116: 137.

SCHMIDT, C. F. See COMROE and SCHMIDT, 1937, 119: 290.

See Walker, Schmidt, Elsom and Johnston, 1937, 118: 95. SCHMIDT, C. L. A. See Greaves and Schmidt, 1935, 111: 492, 502.

See Greaves and Schmidt, 1936, 116: 456. SCHMIDT, C. R., J. M. BEAZELL and A. C. IVY. The effect of heat on blood and

lymph flow from the gastrointestinal tract, 1937, 119: 398. SCHMIDT, C. R. and S. J. FOGELSON. The absence of gastro-duodenal ulcera-

tion after prolonged physiologic hypersecretion, 1936, **116**: 138. The effect of physiologic hypersecretion on the gastro-duodenal mucosa, 1937, **120**: 87.

SCHMIDT, C. R. See BEAZELL and SCHMIDT, 1936, 116: 10.
See BEAZELL, SCHMIDT and IVY, 1937, 119: 197.

SCHMIDT, L. H. The effect of thyroxine ingestion on the toxicity of certain bile salts, 1934, 108: 613.

The phospholipid content of liver, skeletal muscle and whole blood as affected by thyroxine injections, 1935, 111: 138.

The rate of removal of bile salts from the blood as affected by thyroxine, 1936, 116: 138.

SCHMIDT, L. H.

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The removal of sodium cholate from the blood and its secretion into the bile as affected by thyroxine, 1937, 120: 75.

See Tashiro and Schmidt, 1937, 119: 413.

SCHMIDT, M. M. See KRUSE, SCHMIDT and McCollum, 1933, 105: 635.

SCHMIDT, W. J. See WINTROBE, SHUMACKER and SCHMIDT, 1936, 114: 502.

SCHMITT, F. O. On the nature of the nerve impulse. 1. The effect of earbon monoxide on medullated nerve, 1930, 95: 650.

The oxygen consumption of stimulated nerve, 1932, 101: 91.

The oxygen consumption of stimulated nerve, 1933, 104: 303.

SCHMITT, F. O. and R. S. BEAR. Properties of nerve proteins, 1935

SCHMITT, F. O. and R. S. BEAR. Properties of nerve proteins, 1935, 113: 116.
Quantitative studies on nerve birefringence, 1936, 116: 139.

SCHMITT, F. O., R. S. BEAR and J. Z. YOUNG. Optical studies of the ultrastructure of the axis cylinder, 1937, 119: 398.

SCHMITT, F. O. and C. F. CORI. Lactic acid formation in medullated nerve, 1933, 106: 339.

SCHMITT, F. O. and L. FOURT. Thermal inactivation of medullated nerve, 1936, 115: 564.

SCHMITT, F. O. and H. S. GASSER. The effect of carbon monoxide on the afterpotential of medullated nerve, 1931, 97: 558.

The relation between the after-potential and oxidative processes in medullated nerve, 1933, 104: 320.

SCHMITT, F. O., R. S. KERR and E. D. BUEKER. The gaseous metabolism of frog kidney, 1935, 110: 539.

SCHMITT, F. O. and P. A. NICOLL. Heavy metal catalysis in smooth muscle contracture, 1933, 106: 225.

The effect of cyanide upon the contracture of smooth muscle, 1932, 101: 91.

SCHMITT, F. O. and O. H. A. SCHMITT. The nature of the nerve impulse. II.

The effect of cyanides upon medullated nerves, 1931, 97: 302.

SCHMITT, F. O. and M. G. SCOTT. The effect of carbon monoxide on tissue respiration, 1934, 107: 85.

SCHMITT, F. O. and R. K. SKOW. Nerve catalase, 1933, 105: 87.

Nerve catalase, 1933, 106: 404.

The effect of arsenite on medullated nerve, 1934, 109: 93.

The mechanism of the arsenite action on medullated nerve, 1935, 111: 711.

SCHMITT, F. O., R. K. SKOW and E. D. BUEKER. The effect of arsenite on medullated nerve, 1934, 108: 14.

SCHMITT, F. O. and L. J. WADE. Solvation and desolvation of nerve, 1935, 111: 169.

Thermal micellar shortening of peripheral nerve, 1934, 109: 93.

Thermal shortening of nerve, 1935, 111: 159.

SCHMITT, F. O. See Bartz and Schmitt, 1936, 117: 280.
See Bear, Schmitt and Young, 1937, 119: 269.

See FOURT. BEAR and SCHMITT, 1935, 113: 44.

SCHMITT, O. H. An electrical theory of nerve impulse propagation, 1937, 119: 399.
Mechanical solution of the equations of nerve impulse propagation, 1937, 119: 399

SCHMITT, O. H. A. An entirely non-mechanical method for the production of automatically synchronized voltages for the spreading of the oscillograph beam and for stimulation, 1934, 199: 94.

See Schmitt and Schmitt, 1931, 97: 302.

SCHNEDORF, J. G. See Ivy and Schnedorf, 1937, 119: 342.

SCHNEIDER, E. C. A study of respiratory and circulatory responses to a voluntary gradual forcing of respiration, 1930, 91: 390.

A study of responses to work on a bicycle ergometer, 1931, 97: 353, 558.

Observations on holding the breath, 1930, 94: 464.

The vital capacity of the lungs at low barometric pressure, 1932, 100: 426.

SCHNEIDER, E. C. and C. B. CRAMPTON. Physical activity and the blood of albino rats, 1935, 112: 695.

The cardio-vascular responses of pre-adolescent boys to muscular activity, 1936, 114: 473.

The effect of posture on the minute volume of the heart, 1934, 110: 14.

The erythrocyte and hemoglobin increase in human blood during and after exercise, 1935, 112: 202.

The respiratory responses of pre-adolescent boys to muscular activity, 1936, 117: 577.

SCHNEIDER, E. C. and A. O. FOSTER. The influence of physical training on the basal metabolic rate of man, 1931, 98: 595.

SCHNEIDER, E. C. and G. C. RING. The influence of a moderate amount of physical training on the respiratory exchange and breathing during physical exercise, 1929, 91: 103.

SCHNEIDERS, E. F. See Feldman, Van Donk, Steenbock and Schneiders, 1936, 115: 69.

SCHOEN, L. and R. W. GERARD. The rôle of dicarboxylic acids in brain oxidations, 1937, 119: 397.

SCHOENHEIMER, R. See Shapiro, Koster, Rittenberg and Schoenheimer, 1936. 117: 525.

SCHOOLEY, J. P. See Bates, Riddle, Lahr and Schooley, 1937, 119: 603.

SCHOTT, H. F. See Samuels, Schott and Ball, 1937, 120: 649.

SCHOTT, M. See Collett, Wertenberger, Schott, Lawton, Harlor and Reed, 1935, 113: 29.

SCHOUR, I. and J. M. ROGOFF. Changes in the rat incisor following bilateral adrenal ectomy, 1936, 115: 334.

SCHOUR, I. See Frey, Genitis, Schour and Templeton, 1936, 116: 53.

SCHREIBER, N. E. See SOLLMANN and SCHREIBER, 1930, 93: 689.

SCHULHOF, K. The effect of antithyroglobulin serum on the physiological action of thyroglobulin, 1930, 93: 175.
Thyroglobulin versus thyroxin, 1930, 93: 170.

SCHUTZ, W. J. See Soskin, Priest and Schutz, 1932, 101: 95.

See Soskin, Priest and Schutz, 1934, 108: 107.

SCHWABE, E. L. and F. R. GRIFFITH, JR. The effect of exposure to cold upon the basal metabolism of the rat, 1936, 116: 140.

SCHWARTE, L. H. See DUKES and SCHWARTE, 1931, 96: 89.

SCHWARTZ, H. G. Reflex activity within the sympathetic nervous system, 1934, 109: 593.

See Rosenblueth and Schwartz, 1935, 112: 422.

See Rosenblueth and Schwartz, 1935, 113: 112.

SCHWARTZ, L. L. See VEACH, SCHWARTZ and WEINSTEIN, 1930, 92: 453.

SCHWEGLER, R. A. See BOYDEN and Schwegler, 1936, 116: 14.

SCHWEIZER, M. The "basal level" of the white cell count in man, 1933, 105: 217.

See Gaunt, Remington and Schweizer, 1937, 120: 532.

SCOTT, A. H. Thyroxin and tissue metabolism, 1934, 109: 94.

Thyroxin and tissue metabolism, 1935, 111: 107.

SCOTT, D. A. See Best, Jephcott and Scott, 1932, 100: 285.

SCOTT, F. H. See BIETER and SCOTT, 1929, 91: 265.

See Collins and Scott, 1932, 101: 21.

See Flesche, Winkelstein and Scott, 1930, 93: 649.

See Guernsey, Wald and Scott, 1933, 105: 42.

See Hemingway, Scott and Wright, 1935, 112: 56.

See LEICK and SCOTT, 1934, 109: 66.

See Loucks and Scott, 1929, 91: 27.

See WINKELSTEIN and SCOTT, 1931, 97: 570.

SCOTT, J. C. The cardiac output in the standing position, 1936, 115: 268.

The effects of posture upon cardiac output, 1935, 113: 117.

SCOTT, J. C., H. C. BAZETT, M. E. MAXFIELD and M. D. BLITHE. The validity of the Grollman method for cardiac outputs above the basal value, 1935, 113: 118.

SCOTT, J. C. See BAZETT, COTTON, LAPLACE and SCOTT, 1934, 109: 6.

See BAZETT, COTTON, LAPLACE and SCOTT, 1935, 113: 312.

See BAZETT, LAPLACE and SCOTT, 1935, 112: 182.

See BAZETT, SCOTT, MAXFIELD and BLITHE, 1935, 113: 9.

See BAZETT, SCOTT, MAXFIELD and BLITHE, 1936, 116: 9, 551.

See BAZETT, SCOTT, MAXFIELD and BLITHE, 1937, 119: 93.

SCOTT, M. G. See SCHMITT and SCOTT, 1934, 107: 85.

SCOTT, V. B., H. W. FERRILL, J. M. ROGOFF and B. O. BARNES. The sensitivity to insulin, 1934, 109: 95.

SCOTT, V. B. and E. U. STILL. On the existence of pro-secretin, 1935, 112:

SCOTT, V. B. See FERRILL, ROGOFF, BARNES and SCOTT, 1934, 109: 35.

See Rogoff, Barnes, Scott and Ferrill, 1934, 109: 89.

See Still, Bennett and Scott, 1933, 105: 91.

See Still, Bennett and Scott, 1933, 106: 509.

SCUDDER, J. See ZWEMER and SCUDDER, 1937, 119: 427.

SEAGER, L. D. See Franke and Seager, 1932, 101: 35.

See Hertzman, Seager and Franke, 1933, 105: 50.

SEARING, E. A. See Jones and Searing, 1936, 116: 87.
SEARLE, C. P. See Henderson, Oughterson, Greenberg and Searle, 1936, 114: 261, 269.

SEARLE, D. S. See Coombs and Searle, 1933, 105: 23.

See Coombs and Searle, 1934, 109: 23.

SEARLE, O. M. and J. J. MICHAELS. A comparison of the calcium content of human cerebrospinal fluid with that of an ultrafiltrate of serum, 1933, 103: 455

SEDGWICK, F. P. See HERRICK, BALDES and SEDGWICK, 1937, 119: 333.

SEED, L. See REED and SEED, 1931, 97: 554.

SEEGERS, W. H. The effect of protein deficiency on the course of pregnancy, 1937, 119: 474.

SEELE, W. A. Studies on pancreatic grafts made with new technique, 1935, 113: 118.

SEELEY, S. F. See Johnson, Seeley, Baldes and Essex, 1935, 113: 72.

SEEVERS, H. M. See STORMONT and SEEVERS, 1937, 119: 410.

SEEVERS, M. H. O₂ and CO₂ tensions in the subcutaneous tissues of normal subjects, 1936, 115: 38.

SEEVERS, M. H., H. R. HATHAWAY and R. T. STORMONT. Tissue gas studies in respiratory and circulatory disease, 1936, 116: 140.

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SEEVERS, M. H. and R. T. STORMONT. An apparatus for the dry microanalysis of gases adapted to biological studies, 1936, 116: 140.

SEEVERS, M. H. See MEYER, SEEVERS and BEATTY, 1935, 113: 166.

SEGAL, M. See Canzanelli, Segal and Rapport, 1934, 110: 410.

SEITZ, I. J. On the respiratory quotient of departreatised ducks, 1930, 93: 686.

SELLE, W. A. See WESTRA and SELLE, 1934, 109: 109.

SELYE, H. Further evidence in support of the alarm reaction theory of adrenal insufficiency, 1937, 119: 400.

On the nervous control of lactation, 1934, 107: 535.

Thymus, adrenals and thyroid in the response of the organism to certain drugs, 1936, 116: 141.

SELYE, H. and T. McKEOWN. Studies on pseudo-pregnancy, 1934, 109: 96.

SELYE, H., T. McKEOWN and C. HARLOW. Endocrine interrelations during gestation, 1935, 113: 119.

SELYE, H. See Bachman, Selye, Thomson and Collip, 1935, 113: 3.

See Collip, McEuen and Selye, 1936, 116: 29.

See Collip, Selye and Neufeld, 1937, 119: 289.

See Collip, Selye and Thomson, 1934, 109: 22:

See Kutz, Selye, Denstedt, Bachman, Thomson and Collip, 1934, 109: 66.

See Thomson, Harlow, Pugsley and Selye, 1936, 116: 154.

See Thomson, Selve and Collip, 1934, 109: 105.

SEROTA, H. See GERARD and SEROTA, 1936, 116: 59.

SERRITELLA, A. F. See Neild and Serritella, 1934, 108: 550.

SEVERINGHAUS, A. E. The effect of castration in the guinea pig upon the sexmaturing potency of the anterior pituitary, 1932, 101: 309.

SEWALL, H. Induced ocular luminescence as a probable source of entoptic vision, 1934, 108: 409.

SHAFER, G. D. Absorption of water by fatigued or otherwise impaired skeletal muscle cells in relation to heat rigor, 1933, 106: 115.

The reversible heat shortening of elastic connective tissue, and an examination of the possible effects of certain factors on the heat shortening of connective tissues, 1933, 106: 125.

SHAFER, G. D., F. J. UNDERWOOD and E. P. GAYNOR. The action of amytal in impairing vagus cardiac inhibitory effects, and of ether in increasing the respiratory rate after its depression by amytal, 1930, 91: 461.

SHAFTON, A. L. See Jung and Shafton, 1936, 116: 88.
See Jung and Shafton, 1937, 119: 345.

SHAFFER, M., T. H. CHANG and R. W. GERARD. The influence of blood constituents on oxygen consumption in nerve, 1935, 111: 697.

SHAFFER, M. See Chang, Gerard and Shaffer, 1932, 101: 19.

See Chang, Shaffer and Gerard, 1935, 111: 681.

SHANNON, J. A. Excretion of urea and creatinine in the dog in relation to rate of urine formation, 1936, 116: 141.

Glomerular filtration and urea excretion in relation to urine flow in the dog, 1936, 117: 206.

The excretion of inulin and creatinine at low urine flows by the normal dog, 1936, 114: 362.

The excretion of inulin by the dog, 1935, 112: 405.

The excretion of phenol red by the dog, 1935, 113: 602.

The renal excretion of creatinine in man, 1935, 113: 119.

The renal excretion of creatinine in the chicken, 1937, 119: 401.

SHANNON, J. A., N. JOLLIFFE and H. W. SMITH. IV. The effect of maintenance diet, feeding, etc., upon the quantity of glomerular filtrate, 1932, 101: 625.

The excretion of urine in the dog. VI. The filtration and secretion of exogenous creatinine, 1932, 102: 534.

SHANNON, J. A. and F. R. WINTON. The renal excretion of inulin and creatinine and the relation between filtration and reabsorption of water in the anesthetized dog and the pump-lung-kidney, 1937, 119: 401.

SHANNON, J. A. See Jolliffe, Shannon and Smith, 1932, 100: 301.

See Jolliffe, Shannon and Smith, 1932, 101: 639. See Smith and Shannon, 1935, 113: 123.

SHAPIRO, A. and H. KOSTER. The influence of bile on the excretion of sterol in the feces, 1936, 116: 317.

SHAPIRO, A., H. KOSTER, D. RITTENBERG and R. SCHOENHEIMER. The origin of fecal fat in the absence of bile, studied with deuterium as an indicator, 1936, 117: 525.

SHAPIRO, A. See Koster, Shapiro and Lerner, 1936, 115: 23.

SHAPIRO, C. V. See GIBBS, JOHNSON and SHAPIRO, 1931, 97: 243.

SHAPIRO, H. Respiration of the optic nerve of the king-erab, with special reference to the relative activity of fibres and sheath, 1937, 119: 402.

SHARPE, M. See Fay, Greisheimer, Hafkesbring, Andersch, Kenyon, Mac-Calmont, Sharpe and Cortell, 1937, 119: 306.

SHATTUCK, G. C. and F. G. BENEDICT. Further studies on the basal metabolism of Maya Indians in Yucatan, 1931, 96: 518.

SHAW, J. L. See FREEMAN, SHAW and SNYDER, 1936, 116: 52.

SHAW, J. R. See Sacks, Sacks and Shaw, 1936, 116: 135.

See Sacks, Sacks and Shaw, 1937, 118: 232.

SHAW, L. A. and A. R. BEHNKE. The rôle of carbon dioxide in producing the symptoms of acute oxygen poisoning, 1934, 109: 96.

SHAW, L. A., A. R. BEHNKE and A. C. MESSER. The rôle of carbon dioxide in producing the symptoms of oxygen poisoning, 1934, 108: 652.

SHAW, L. A., A. R. BEHNKE, A. C. MESSER, R. M. THOMSON and E. P. MOT-LEY. The equilibrium time of the gaseous nitrogen in the dog's body following changes of nitrogen tension in the lungs, 1935, 112: 545.

SHAW, L. A. and A. C. MESSER. Cutaneous respiration in man. II. The effect of temperature and of relative humidity upon the rate of carbon dioxide elimination and oxygen absorption, 1930, 95: 13.

Cutaneous respiration in man. III. The permeability of the skin to carbon dioxide and oxygen as affected by altering their tension in the air surrounding the skin, 1931, 98: 93.

The carbon dioxide capacity of the body and the rate at which the body comes into equilibrium with changes in the alveolar carbon dioxide tension, 1930, 93: 422.

The transfer of bicarbonate between the blood and tissues caused by alterations of the carbon dioxide concentration in the lungs, 1932, 100: 122.

SHAW, L. A. See Behnke, Shaw, Messer, Thomson and Motley, 1936, 114: 526.
See Behnke, Shaw, Shilling, Thomson and Messer, 1934, 107: 13.
See Behnke, Thomson and Shaw, 1935, 114: 137.

See Shilling, Thomson, Behnke, Shaw and Messer, 1934, 107: 29.

SHAW, R. See Donal, Gamble and Shaw, 1934, 109: 666.

See Starr, Donal, Margolies, Shaw, Collins and Gamble, 1934, 109: 101.

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SHEARD, C., G. M. HIGGINS and W. I. FOSTER. The effects of solar irradiation of long visible and ultraviolet wavelengths, respectively, with and without supplementary irradiation of various types, on the growth of chicks and the development of parathyroid glands, 1930, 93: 686.

The growth and development of chicks as influenced by solar irradiation of long visible and ultraviolet wavelengths, respectively, with and without supplementary irradiation of various types, 1930, 94: 84.

SHEARD, C., B. T. HORTON and W. McK. CRAIG. The effects of general anesthesia and sympathetic ganglionectomy on the temperatures of the extremities, 1933, 105: 87.

SHEARD, C., E. C. McCRACKEN and H. E. ESSEX. The circulation time of the blood in dogs as measured by ionized methods. Effects of various physicophysiologic agents and of drugs, 1936, 116: 142.

The circulation time of the blood in dogs before and during the digestion of food, 1934, 109: 96.

SHEARD, C., E. H. RYNEARSON and W. McK. CRAIG. Changes in temperature in the extremities of animals in relation to anesthesia and lumbar sympathetic ganglionectomy, 1931, 97: 558.

SHEARD, C., M. M. D. WILLIAMS and B. T. HORTON. Effects of changes in environmental conditions on skin temperatures and the dissipation of heat from the body, 1937, 119: 403.

SHEARD, C. See HERRICK and SHEARD, 1935, 113: 62. See Higgins, Foster and Sheard, 1930, 94: 91.

SHECKET, H. A. The total and differential white cell count in adrenalectomized rats, 1934, 109: 97.

SHEEHAN, D. See Mahoney and Sheehan, 1935, 112: 250.

SHELDON, J. M. and L. H. NEWBURGH. A quantitative study of the oxidation of carbohydrate in normal and diabetic men, 1937, 119: 403.

SHELESNYAK, M. C. The production of placentomata in young rats following gonadal stimulation with pituitary implants, 1931, 98: 387.

The production of deciduomata in immature rats by pregnancy urine treatment, 1933, 104: 693.

SHEPEARD, W. L. See McDonald, Shepeard, Green and De Groat, 1935, 112: 227.

SHEPPARD, L. See WALKER and SHEPPARD, 1935, 111: 192.

SHERBERG, R. O. See Jones and Sherberg, 1936, 116: 87.

SHERMAN, W. C. and C. A. ELVEHJEM. A study of anaerobic glycolysis in tissues from polyneuritic chicks, 1936, 117: 151.

In vitro action of crystalline vitamin B₁ on pyruvic acid metabolism in tissues from polyneuritic chicks, 1936, **117**: 142.

SHERWOOD, T. C., G. P. BIRGE, O. R. DEPP and H. B. DOTSON. The influence of excess vitamin A in the diet upon the uterus and ovary of the rat, 1937. 119: 403.

SHERWOOD, T. C. and L. M. BOWERS. The effect of ovarian hormone on the basal metabolism of experimental hyperthyroid rats, 1936, 115: 645.

SHERWOOD, T. C., M. SAVAGE and J. F. HALL. The effect of amniotin on the basal metabolism of rats and rabbits, 1933, 105: 241.

SHERWOOD, T. C., T. M. WILSON and H. BONETA. The relation of amniotin to the basal metabolism of the thyroidectomized rat, 1937, 120: 671.

SHEVKY, E. See OLIVER and SHEVKY, 1930, 93: 363.

SHIELS, E. H. See Elsom, Bott and Shiels, 1936, 115: 548.

SHIH, H. E. The origin of protein in the urine of albino rats, 1935, 113: 120.

SHILING, M. S. See BRODY and SHILING, 1930, 91: 399.

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SHILLING, C. W., R. A. HANSEN and J. A. HAWKINS. The effect of increased air pressure on vital capacity, expiratory force and breath-holding ability, 1935, 110: 616.

SHILLING, C. W., R. M. THOMSON, A. R. BEHNKE, L. A. SHAW and A. C. MESSER. Studies on the effects of high oxygen pressure. II. Effect of high oxygen pressure on the sugar, phosphorus, non-protein nitrogen, chloride, creatinin, calcium and potassium content of the blood, 1934, 107: 29.

SHILLING, C. W. See BEHNKE, SHAW, SHILLING, THOMSON and MESSER, 1934, 107: 13.

SHIPP, M. E. See Kennon, Shipp and Hetherington, 1937, 118: 690.

SHOCKAERT, J. A. Differences between anterior pituitary sex-stimulating hormones and pregnancy-urine substances as tested in the male mammal and bird, 1933, 105: 497.

SHOEMAKER, H. A. See Mason, Shoemaker and Paxton, 1935, 113: 95. See Whelan and Shoemaker, 1936, 115: 476.

SHOEMAKER, J. C. See BERNTHAL and SHOEMAKER, 1937, 119: 272.

SHORR, E., R. O. LOEBEL and H. B. RICHARDSON. The lactic acid cycle in excised mammalian muscle, 1931, 97: 559.

The lactic acid cycle in the excised skeletal muscle of the diabetic dog, 1932, 101: 92.

SHORR, E., M. MALAM and H. B. RICHARDSON. The respiratory metabolism and lactic acid oxidative quotient of excised cardiac muscle of normal and depancreatized dogs, 1937, 119: 404.

SHORR, E., H. B. RICHARDSON and J. E. SWEET. The respiratory metabolism and lactic acid cycle in the excised skeletal muscle of the departreatizedhypophysectomized dog, 1936, 116: 142.

SHORR, E. See CATTELL and SHORR, 1932, 101: 18.
See CATTELL and SHORR, 1935, 113: 26.

SHORT, D. N. See CRIMM and SHORT, 1934, 108: 324.

See CRIMM and SHORT, 1935, 111: 397. See CRIMM and SHORT, 1937, 118: 477.

SHPINER, L. B. Increased metabolism only one factor in the production and maintenance of the hyperglycemia and glycosuria in experimental hyperthyroidism, 1930, 92: 672.

SHPINER, L. B. and S. SOSKIN. On the mechanism of action of a blood sugar raising principle extracted from the hypophysis, 1934, 109: 97.

SHPINER, L. B. See STILL and SHPINER, 1930, 91: 496.

SHRIVASTAVA, D. L. See CRUICKSHANK and SHRIVASTAVA, 1930, 92: 144.

SHUMACKER, H. B., JR. See WINTROBE, SHUMACKER and SCHMIDT, 1936, 114: 502.

SIDDLE, R. W. Reactions of strips from the heart of the monkey (Macacus rhesus), 1930, 93: 687.

SIEBECKER, K. See HERRIN, JOHNSON and SIEBECKER, 1937, 119: 334.

SIEBERT, W. J. and R. S. SMITH. The effect of various anterior pituitary preparations upon basal metabolism in partially thyroidectomized and in completely thyroidectomized guinea pigs, 1930, 95: 396.

SIGMAN, E. The effect of motion on the electrical conductivity of blood, 1935, 113: 121.

SIGMAN, E., A. KOLIN, L. N. KATZ and K. JOCHIM. Effect of motion on the electrical conductivity of the blood, 1937, 118: 708. SIGMAN, E. See Katz, Sigman, Gutman and Ocko, 1936, 116: 343.

See Ocko, Gutman, Sigman and Katz, 1935, 113: 103.

SILVERS, S. H. See LEVIN and SILVERS, 1931, 97: 538.

SILVETTE, H. Chloride, carbohydrate and water metabolism in adrenal insufficiency and other conditions, 1934, 108: 535.

Effect of adrenalectomy on chloride and water balance, 1934, 109: 97.

Effects of cortico-adrenal extract on glycolysis in vitro, 1932, 102: 693.

Influence of pituitary extracts on renal activity in normal and adrenalectomized opossums, 1937, 119: 405.

Renal function and water balance in adrenal insufficiency and after cortical extract treatment, 1933, 105: 88.

Salt loss following adrenalectomy and glucose administration, 1935, 113: 122. Some effects produced in vitro by cortico-adrenal extract, 1932, 101: 94.

The absorption of water, chlorides and glucose by the adrenalectomized rat, 1935, 113: 121.

SILVETTE, H. and S. W. BRITTON. A chemical consideration of red and white muscle, 1934, 109: 98.

Adreno-pituitary interrelationships and renal secretion in the opossum, 1936, 116: 143.

Carbohydrate and electrolyte changes in the opossum and marmot following adrenalectomy, 1936, 115: 618.

Carbohydrate changes in emotion, exercise and exposure to cold, 1932, 101: 94. Effects of adrenalectomy and cortico-adrenal extract on renal excretion and tissue fluids, 1933, 104: 399.

Sodium, chloride and protein changes induced by adrenalectomy and glucose administration, 1935, 111: 305.

Sodium chloride balance and carbohydrate metabolism in the adrenalectomized opossum, 1935, 113: 122.

The comparative effects on carbohydrate metabolism of exhausting motive and emotive responses and exposure to cold, 1932, 100: 685.

SILVETTE, H. and R. KLINE. Saline and glucose effects on the survival of adrenalectomized opossums, 1936, 116: 144.

SILVETTE, H. See BRITTON, FLIPPIN and SILVETTE, 1931, 99: 44.

See Britton and Silvette, 1931, 97: 507.

See Britton and Silvette, 1931, 99: 15.

See Britton and Silvette, 1932, 100: 693, 701.

See Britton and Silvette, 1932, 101: 13.

See Britton and Silvette, 1933, 105: 12.

See Britton and Silvette, 1934, 107: 190.

See Britton and Silvette, 1936, 116: 15.

See Britton and Silvette, 1937, 118: 21, 594.

See Britton and Silvette, 1937, 119: 276, 277.

See Britton, Silvette and Kline, 1936, 116: 15.

SIMEONE, F. A. A neuromuscular mechanism in the ductus epididymidis and its impairment by sympathetic denervation, 1933, 103: 582.

The effect of initial tension on the spontaneous activity and responses of the non-pregnant cat's uterus, 1935, 112: 320.

The effect of regeneration of the nerve supply on the sensitivity of the denervated nictitating membrane to adrenine, 1937, 120: 466.

SIMEONE, F. A. and A. ROSENBLUETH. The electrical excitability of the nictitating membrane, 1934, 110: 399.

SIMEONE, F. A. See ROSENBLUETH and SIMEONE, 1934, 110: 42.

SIMMERS, M. H. An investigation of the physical structure of fibrin by x-ray crystal methods, 1930, 94: 497.

SIMMONDS, R. See Sahyun, Simmonds and Working, 1934, 108: 708.

SIMON, A. The pressor and oxytocic content of the hypophysis of rats under various conditions, 1934, 107: 220.

SIMONDS, R. See King, Simonds and Aisner, 1935, 110: 573.

SIMONS, A. H. See NICE and SIMONS, 1931, 97: 548.

SIMPSON, H. N. and A. J. DERBYSHIRE. Electrical activity of the motor cortex during cerebral anemia, 1934, 109: 99.

SIMPSON, M. E. See Evans, Meyer and Simpson, 1932, 100: 141.

See Evans and Simpson, 1931, 98: 511.

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See Reichert, Pencharz, Simpson, Meyer and Evans, 1932, 100: 157.

SIMPSON, W. W. See Mackler, Olmsted and Simpson, 1929, 91: 362.

See Mackler, Olmsted and Simpson, 1930, 94: 626.
SINCLAIR, R. G. The permeability of the rat's placenta to fat, 1933, 103: 73.

SINGLETON, A. O., JR. See Moore and Singleton, 1935, 113: 99.

See Moore, Moore and Singleton, 1934, 107: 594.

See Moore and Singleton, 1933, 104: 267.

SKINNER, B. F. See Lambert, Skinner and Forbes, 1933, 105: 65.

See Lambert, Skinner and Forbes, 1933, 106: 721.

SKINNER, J. T., E. VAN DONK and H. STEENBOCK. Manganese as a factor in reproduction, 1932, 101: 591.

SKOW, R. K. See BAUMBERGER and Skow, 1936, 116: 8.

See SCHMITT and SKOW, 1933, 105: 87.

See SCHMITT and SKOW, 1933, 106: 404.

See SCHMITT and SKOW, 1934, 109: 93.

See SCHMITT and SKOW, 1935, 111: 711.

See Schmitt, Skow and Bueker, 1934, 108: 14.

SKUPA, A. See GELLHORN and SKUPA, 1933, 106: 318.

SLAGLE, G. See Lewis and Slagle, 1937, 119: 360.

SLEETH, C. K. and E. J. VAN LIERE. The effect of anoxemia on the impermeability of the stomach to water, 1936, 116: 144.

The effect of environmental temperature on the emptying time of the stomach, 1937, 118: 272.

SLEETH, C. K. See Van Liere, Lough and Sleeth, 1936, 116: 156.

See Van Liere and Sleeth, 1936, 116: 635.

See VAN LIERE and SLEETH, 1936, 117: 309.

See VAN LIERE and SLEETH, 1937, 119: 416.

See Van Liere, Sleeth and Northup, 1936, 117: 226.

See Van Liere, Sleeth and Northup, 1937, 119: 480.

SLOCUM, M. A. and H. D. LIGHTBODY. Changes in sugar and lactic acid content of blood caused by burns, 1931, 96: 35.

SLONAKER, J. R. Sex-drive in rats, 1935, 112: 176.

Superfetation in the albino rat, 1934, 108: 322.

The effect of different per cents of protein in the diet: I. Growth, 1931, 96: 547.

The effect of different per cents of protein in the diet: II. Spontaneous activity, 1931, 96: 557.

The effect of different per cents of protein in the diet: III. Intake and expenditure of energy, 1931, 97: 15.

The effect of different per cents of protein in the diet: IV. Reproduction, 1931, 97: 322.

SLONAKER, J. R.

The effect of different per cents of protein in the diet: V. The offspring, 1931, 97: 573.

The effect of different per cents of protein in the diet: VI. Weight of mothers during gestation and lactation, 1931, 97: 626.

The effect of different per cents of protein in the diet. VII. Life span and cause of death, 1931, 98: 266.

The effect of different per cents of protein in the diet on bachelor and virgin rats, 1935, 113: 159.

The effect of the excision of different sexual organs on the development, growth and longevity of the albino rat, 1930, 93: 307.

SMADEL, J. E. See FARR and SMADEL, 1936, 116: 349.
See THURSTON, SMADEL and LOEB, 1935, 114: 19.

SMELSER, G. K. See Nelson and Smelser, 1933, 103: 374.

SMITH, A. H. and G. D. GROSS. The relation of somatic growth to the maturation of the erythrocyte in the rat, 1937, 118: 309.

SMITH, A. H. and R. V. SCHULTZ. Effects of diets poor in inorganic salts on certain organs and blood of young rats, 1930, 94: 107.

SMITH, A. H. and P. P. SWANSON. The response of the kidney to strict limitation of mineral salts in the ration, 1931, 97: 561.

SMITH, A. H. See Anderson and Smith, 1932, 100: 511.

See Calvin, Smith and Mendel, 1933, 105: 16, 135.

See CLARKE, BASSIN and SMITH, 1936, 115: 556.

See Clarke and Smith, 1933, 105: 20.

See CLARKE and SMITH, 1935, 112: 286.

See Francis, Smith and Moise, 1931, 97: 210.

See ORTEN and SMITH, 1934, 108: 66.

See ORTEN and SMITH, 1937, 119: 381.

See Smith and Smith, 1934, 109: 99.

See Swanson and Smith, 1932, 101: 98.

See Swanson and Smith, 1936, 116: 516.

See YUDKIN, KRISS and SMITH, 1931, 97: 611.

SMITH, C. Daily erythrocyte counts in menstrual and intermenstrual periods, 1936, 114: 452.

SMITH, C. and M. PREST. Further observations on the normal variations in erythrocyte values in women, 1932, 99: 562.

SMITH, D. C. and A. G. MULDER. The effect of accelerator nerve stimulation and of adrenalin on recovery from ventricular fibrillation in the cat, 1936, 115: 507

The effect of accelerator nerve stimulation and of adrenalin on recovery from ventricular fibrillation in the cat, 1936, 116: 145.

SMITH, E. and C. W. KIM. The blood sugar during asphyxia by illuminating gas, 1937, 119: 405.

SMITH, E., E. McMILLIN and I. WILLIAMS. Effects of breathing sublethal percentages of illuminating gas, 1933, 105: 88.

SMITH, E. and A. D. PICKETT. Cell changes induced in the hypophysis of the albino rat by repeated exposure to illuminating gas, 1936, 116: 145.

SMITH, E. and I. WILLIAMS. Effects of illuminating gas on reproduction in the rat, 1934, 109: 99.

SMITH, F. See Sweeney and Smith, 1930, 95: 620.

See WILLIAMS and SMITH, 1935, 110: 611.

SMITH, E. A. Salivary secretion during thirst, 1935, 113: 123.

SMITH, E. L. See Holck, Kanan, Mills and Smith, 1937, 119: 338.

SMITH, E. R. B. and G. R. COWGILL. Proteins as stimulants for the secretion of pepsin, 1933, 105: 697.

SMITH, E. R. B. See FERGUSON and SMITH, 1934, 109: 34.

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SMITH, F. M. and W. D. PAUL. Studies on the mechanism of the pain in peptic ulcer, 1931, 97: 561.

SMITH, F. M., W. D. PAUL and W. M. FOWLER. The alterations in the gastric function induced by a stimulation from the colon and appendix, 1930, 93: 688.

SMITH, F. M. See Paul, Clark and Smith, 1934, 109: 82.

SMITH, G. C. See RIDDLE, SMITH and BENEDICT, 1932, 101: 88, 260.

See RIDDLE, SMITH and BENEDICT, 1933, 105: 428. See RIDDLE, SMITH and BENEDICT, 1934, 107: 333.

See Richter, Dotti and Smith, 1937, 119: 389.

SMITH, G. V. and O. W. SMITH. Excessive gonad-stimulating hormone and subnormal amounts of oestrin in the toxaemias of late pregnancy, 1934, 107: 128.

SMITH, G. V. See WATKINS and SMITH, 1931, 96: 28.

SMITH, G. v. S. and O. WATKINS. A biochemical investigation into the function of corpus luteum. A study of blood sugar and non-protein nitrogen changes in rabbits after the administration of corpus luteum, 1930, 94: 586.

Studies on the urinary excretion of oestrin, with especial reference to the effect of the luteinizing hormone and progestin, 1931, 98: 578.

The inhibition of lactation in rabbits with large amounts of oestrin, 1933, 103: 356.

SMITH, G. VAN S. and O. W. SMITH. The excretion of oestrin by women, 1932, 100: 553.

The quantitative determination of urinary oestrin, 1935, 112: 340.

SMITH, H. A. See KNOBLE and SMITH, 1931, 97: 537

SMITH, H. P., E. D. WARNER and K. M. BRINKHOUS. Lung extract and blood clotting, 1934, 107: 63.

See Jones and Smith, 1930, 94: 144.

See Warner, Brinkhous and Smith, 1936, 114: 667.

See WARNER, BRINKHOUS and SMITH, 1937, 119: 418.

SMITH, H. W. The absorption and exerction of water and salts by the elasmobranch fishes: I. Fresh water elasmobranchs, 1931, 98: 279.

The absorption and excretion of water and salts by the elasmobranch fishes: II. Marine elasmobranchs, 1931, 98: 296.

The absorption and excretion of water and salts by marine teleosts, 1930, 93: 480.

SMITH, H. W. and W. GOLDRING. The estimation of the renal blood flow in man, 1937, 119: 406.

SMITH, H. W. and J. A. SHANNON. The excretion of inulin, xylose and urea by normal and phlorizinized man, 1935, 113: 123.

SMITH, H. W. See CLARKE and SMITH, 1936, 116: 28.

See Goldring, Clarke and Smith, 1936, 116: 62.

See Jolliffe, Shannon and Smith, 1932, 100: 301.

See Jolliffe, Shannon and Smith, 1932, 101: 639.

See Jolliffe and Smith, 1931, 98: 572.

See JOLLIFFE and SMITH, 1931, 99: 101.

See KAPLAN and SMITH, 1935, 113: 75, 354.

See Shannon, Jolliffe and Smith, 1932, 101: 625.

See Shannon, Jolliffe and Smith, 1932, 102: 534.

SMITH, J. See Ferguson, Lewis and Smith, 1937, 119: 308.

SMITH, J. B. and J. TULGAN. Reciprocal reaction in the cat as a possible local mechanism. III. The reciprocal reaction of the biceps brachii and the triceps brachii, 1930, 95: 174.

SMITH, J. T. See WERTENBERGER, COLLETT and SMITH, 1936, 116: 159.

SMITH, K. U. The postoperative effects of removal of the occipital cortex upon visual intensity discrimination in the cat, 1936, 116: 145.

SMITH, L. B. Effect of prolonged treatment with methyl guanidine sulphate on blood pressure of dogs, 1930, 93: 688.

SMITH, M. C. See Lantz and Smith, 1934, 109: 645.

SMITH, O. C. Action potentials from single motor units in voluntary contraction, 1934, 108: 629.

See Forbes, Smith, Lambert, Caveness and Derbyshire, 1933, 103: 131.

SMITH, O. W. See SMITH and SMITH, 1931, 98: 578.

See Smith and Smith, 1932, 100: 553.

See Smith and Smith, 1933, 103: 356.

See Smith and Smith, 1934, 107: 128.

See Smith and Smith, 1935, 112: 340.

SMITH, P. E. The comparative sensitivity of the reproductive tracts of hypophysectomized and ovariectomized rats to follicular hormone, 1932, 99: 349.

The non-essentiality of the posterior hypophysis in parturition, 1932, 99: 345. See LEONARD and SMITH, 1934, 108: 22.

SMITH, P. K. and A. H. SMITH. The effect of a diet low in inorganic constituents on the voluntary activity of the albino rat, 1934, 109: 99.

SMITH, P. W. The mechanism of the poisoning action of phlorizin on the kidney, 1936, 116: 146.

The quantitative relation between concentration of iodoacetic acid and rate of lactate accumulation in minced muscle, 1932, 101: 94.

The relation between lactic acid concentration and oxygen consumption in resting and active muscle, 1935, 113: 124.

SMITH, P. W. and M. B. VISSCHER. On the source of energy for anaerobic contraction in glycogen-poor muscle, 1930, 95: 130.

Studies on the kinetics of lactate formation in muscle under the influence of iodoacetic acid, 1932, 102: 448.

The temperature coefficients of the several processes in muscle contraction, 1931, 97: 562.

SMITH, P. W. See VISSCHER and SMITH, 1930, 95: 121.

SMITH, R. G. See Brown and Smith, 1935, 113: 455.

SMITH, R. M. See Marble, Field, Drinker and Smith, 1934, 109: 467.

SMITH, R. S. See SIEBERT and SMITH, 1930, 95: 396.

SMITH, V. D. E. See Jackson and Smith, 1931, 97: 146.

SMITH, W. K. Alterations of respiratory movements induced by electrical stimulation of the cerebral cortex of the dog, 1936, 115: 261.

SMITH, W. W. Contracture in the gastrocnemius of the frog. Calcium-free Ringer contracture and the effects of various substances upon it, 1936, 116: 147.

SMITH, W. W. and F. H. PIKE. Fatigue, contracture and rigor mortis in the frog's gastrocnemius, 1936, 116: 146.

SMITHWICK, R. H. See Freeman, Smithwick and White, 1934, 107: 529.

SNAPE, W. J. See Hughes, McCouch, Snape and Stewart, 1935, 113: 68.
See McCouch, Snape and Stewart, 1935, 111: 263.

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116: og's SNELL, A. M. and C. H. GREENE. The calcium in the serum in jaundice, 1930, 92: 630.

SNELL, A. M. See Adams, Boothby and Snell, 1936, 114: 383.
See Thiessen and Snell, 1933, 105: 665.

SNODGRASS, J. M. An electron tube chronaximeter, 1934, 109: 100.

SNODGRASS, J. See Stevens, Karrer and Snodgrass, 1932, 101: 97.
See Stetson, Stevens and Snodgrass, 1934, 109: 103.
See Stevens and Snodgrass, 1933, 104: 276.

SNYDER, C. D. Experimental studies on vagal control of the functions of the liver, 1937, 118: 345.

Method of measuring heat production in contracting muscle, 1934, 109: 100.

On the true anoxidative and oxidative heat production of smooth muscle, 1930, 92: 117.

On the variability of the H/T ratio in the twitch of isolated skeletal muscle and the proof of the validity of the method used for measuring heat production, 1935, 110: 552.

The heat liberated by the beating heart. Eighth communication: A new method of analyzing waves of heat production; also a study of variability of heat production associated directly with the contractile act, 1934, 107: 551.

The latencies of mechanical and electrical responses in skeletal muscle, 1936, 115: 441.

SNYDER, F. F. and M. ROSENFELD. Alteration in the regulation of respiration occurring at birth, 1937, 119: 406.

Direct observation of intrauterine respiratory movements of the fetus and the rôle of carbon dioxide and oxygen in their regulation, 1937, 119: 153. Regulation of fetal respiration, 1936, 116: 147.

SNYDER, F. F. See Hoskins and Snyder, 1933, 104: 530.

See Lell, Liber and Snyder, 1932, 100: 21. See Rosenfeld and Snyder, 1937, 119: 393.

SNYDER, J. C. See FREEMAN, SHAW and SNYDER, 1936, 116: 52.
See WHITELAW and SNYDER, 1934, 110: 247.

SNYDER, R. G. See Clark, Gibson and Snyder, 1934, 109: 20.

SOBEL, R. See Stevens and Sobel, 1937, 119: 409.

SOBIN, S. See Nicholson and Sobin, 1936, 116: 114.
See Nicholson and Sobin, 1937, 119: 380.

SOLANDT, D. Y. The rôle of calcium in the excitation of nerve, 1937, 119: 406.
 See Bronk, Ferguson, Margaria and Solandt, 1936, 117: 237.
 See Bronk, Ferguson and Solandt, 1934, 109: 15.

SOLLMANN, E. I. Autoxidation of fats, 1931, 97: 562.

SOLLMANN, T. and N. E. SCHREIBER. The diuretic effects of various mercurial treatments, 1930, 93: 689.

SOLOMON, E. See BOUCKAERT and SOLOMON, 1930, 95: 417.

SOLOMON, E. I. See Holmes, Gerard and Solomon, 1930, 93: 342.
See Quigley and Solomon, 1930, 91: 488.

SOSKIN, S. and D. ALLWEISS. Factors determining the dextrose tolerance curve, 1933, 105: 89.

SOSKIN, S. and M. D. ALLWEISS. The hypoglycemic phase following the normal dextrose tolerance curve, 1934, 109: 101.

The hypoglycemic phase of the dextrose tolerance curve, 1934, 110: 4.

SOSKIN, S., M. D. ALLWEISS and D. J. COHN. Influence of the pancreas and the liver upon the dextrose tolerance curve, 1934, 109: 155.

SOSKIN, S., H. E. ESSEX, J. F. HERRICK and F. C. MANN. Comparative influence of epinephrine and of dextrose on the utilization of sugar by the muscles, determined with the aid of thermostromuhr measurements of blood flow, 1937, 118: 328.

Direct proof of the homeostatic regulation of the blood sugar by the liver, 1937, 119: 407.

SOSKIN, S. and L. N. KATZ. A new method for perfusing the isolated mammalian heart, 1931, 97: 563.

SOSKIN, S. and R. LEVINE. A relationship between the blood sugar level and the rate of sugar utilization, affecting the theories of diabetes, 1937, 120: 761.

SOSKIN, S. and I. A. MIRSKY. "Hunger diabetes" and the utilization of glucose in the fasting dog, 1935, 114: 106.

The influence of progressive toxemic liver damage upon the dextrose tolerance curve, 1935, 112: 649.

SOSKIN, S., I. A. MIRSKY, L. M. ZIMMERMAN and N. CROHN. Influence of hypophysectomy on gluconeogenesis in the normal and departeratized dog, 1935, 114: 110.

The rôle of the anterior pituitary gland in pancreatic diabetes and diabetes mellitus, 1935, 113: 124.

SOSKIN, S., I. A. MIRSKY, L. M. ZIMMERMAN and R. C. HELLER. Indispensability of the hypophysis to the Staub-Traugott phenomenon, 1936, 116: 148.

Normal dextrose tolerance curves, in the absence of insulin, in hypophysectomized-depanceatized dogs, 1936, 114: 648.

SOSKIN, S., W. S. PRIEST and W. J. SCHUTZ. The influence of epinephrin upon the exchange of sugar between blood and muscle, 1932, 101:95.

The influence of epinephrin upon the exchange of sugar between blood and muscle, 1934, 108: 107.

SOSKIN, S. and O. SAPHIR. The prevention of hypertrophy and the limitation of normal pulsation and expansion of the kidney by means of casts, 1932, 101: 573.

The prevention of hypertrophy and the limitation of normal pulsation of the kidney by means of casts, 1931, 97: 563.

SOSKIN, S. See DE PENCIER, SOSKIN and BEST, 1930, 94: 548.

See FREED and SOSKIN, 1937, 119: 311.

See Hershey and Soskin, 1931, 98: 74.

See Mirsky and Soskin, 1935, 113: 98.

See Shpiner and Soskin, 1934, 109: 97.

SONTAG, L. W. and P. L. MUNSON. The effect on the weight of the offspring of administration of antuitrin G to the pregnant rat, 1934, 108: 593.

SPEALMAN, C. R. and A. B. HERTZMAN. Blood pressure studies in normal and ovariectomized rats, 1937, 119: 408.

SPEALMAN, C. R. See Blum and Spealman, 1934, 109: 605.

See HERTZMAN and SPEALMAN, 1937, 119: 334.

SPENCER, H. C. and S. MORGULIS. Biochemical studies on the blood of dystrophic rabbits, 1936, 116: 149.

SPENCER, H. J. and W. S. McCLELLAN. The influence of the previous diet on the respiratory metabolism following glucose meals, 1932, 101: 95.

SPIEGEL, E. A. Comparative study of the thalamic, cerebral and cerebellar potentials, 1937, 118: 569.

Respiratory reactions upon vertical movements, 1936, 117: 349.

The pyramidal and the extrapyramidal part of the centers of the autonomic system, 1932, 101: 96.

SPIEGEL, E. A. and L. ARONSON. The interaction of cortical and labyrinthine impulses to ocular muscle movements, 1934, 109: 693.

SPIEGEL, E. A. See ASHKENAZ and SPIEGEL, 1935, 112: 573.

SPIERS, M. A. See BROCKETT, SPIERS and HIMWICH, 1934, 110: 342. See Himwich, Chambers, Hunter and Spiers, 1932, 99: 619. See Himwich and Spiers, 1931, 97: 648.

SPIES, T. D. and A. S. DOWLING. The experimental production of anemia in dogs by means of a blacktongue-producing diet, 1935, 114: 25.

SPIES, T. D. and J. GRANT. An experimental study of a so-called "pellagra producing" diet, 1933, 104: 18.

SPIES, J. W. and G. P. LYMAN. The intraperitoneal administration of viosterol in mice, 1932, 102: 527.

SPIESMAN, I. G. Vasomotor responses of the mucosa of the upper respiratory tract to the thermal stimuli, 1936, 115: 181.

SPIESMAN, I. G. and E. GELLHORN. The influence of variations of O₂ and CO₂ tension in the inspired air upon cortical and subcortical processes in men, 1935, 113: 125.

SPIESMAN, I. G. See GELLHORN and SPIESMAN, 1935, 112: 519, 520, 662.

SPILLES, N. M. See Cook and Spilles, 1931, 98: 626.

SPITTLER, R. See FAHR, DAVIS and SPITTLER, 1931, 96: 426.

SPOTNITZ, H. See ELSBERG and SPOTNITZ, 1937, 118: 792.
See ELSBERG and SPOTNITZ, 1937, 120: 689.

SPRADLIN, M. C. See Hamilton, Spradlin and Saam, 1932, 100: 587.

SPRAGUE, P. H. Experimental studies on the glycogen content of the perfused heart of the rabbit, 1933, 105: 402.

SPRAGUE, R. and A. C. IVY. Studies in avian carbohydrate metabolism, 1936, 115: 389.

SPRAGUE, R. J. Effect of "chronic" experimental liver damage on the blood sugar response to insulin, 1934, 110: 488.

SPURLING, R. G. See Hamilton, Moore, Kinsman and Spurling, 1930, 93: 654.
See Hamilton, Moore, Kinsman and Spurling, 1932, 99: 534.

SRIBHISHAJ, K., W. B. HAWKINS and G. H. WHIPPLE. I. Bile pigment and hemoglobin interrelation in normal dogs, 1931, 96: 449.

SRIBHISHAJ, K. See Hawkins, Sribhishaj, Robscheit-Robbins and Whipple, 1931, 96: 463.

SRIBYATTA, L. See BAZETT, GOLDSCHMIDT, McGLONE and SRIBYATTA, 1937, 119: 268.

STAFF, H. See Talbert, Saiki, Carpenter, Bergmeyer, Staff, Borman and Freeman, 1931, 97: 426.

See Talbert, Stinchfield and Staff, 1933, 105: 94.

See Talbert, Stinchfield and Staff, 1933, 106: 488.

STANBURY, J. See Amberson, Stanbury and Warweg, 1936, 116: 1.

STANBURY, J. B., E. WARWEG and W. R. AMBERSON. Total plasmapheresis, 1936, 117: 230.

STANNARD, J. N. Relative effects of iodoacetate and iodoacetamide on muscle respiration and glycolysis, 1937, 119: 408.

Stimulation of the endogenous respiration of bakers' yeast by carbon monoxide, 1936, 116: 149.

STANTON, H. M. The spinal origin of fibers causing vasodilatation in the cat's submaxillary gland, 1933, 105: 89.

STARE, F. J. and C. A. ELVEHJEM. Studies on the respiration of animal tissues, 1933, 105: 655.

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STARK, M. E. Standards for predicting basal metabolism in the immediate preadult years, 1935, 111: 630.

STARR, I., JR., W. O. ABBOTT, J. H. COMROE, JR., K. A. ELSOM and J. A. REISINGER. Further studies on the action of acetyl- β -methylcholine and the ethyl ether of β -methylcholine in the experimental animal and in the clinic, 1933, 105: 90.

STARR, I., JR. and L. H. COLLINS, JR. Estimations of the rapidity and amount of blood traversing the shorter paths of the systemic circulation, 1933, 104: 650.

Estimations of the velocity and amount of blood flowing through the shorter paths of the systemic circulation, 1930, 93: 690.

Studies of cardiac output in normal men, 1931, 96: 228.

STARR, I., JR., J. S. DONAL, A. MARGOLIES, R. SHAW, L. H. COLLINS and C. J. GAMBLE. Studies on the heart and circulation in disease; estimations of basal cardiac output, metabolism, heart size, and blood pressure in 235 subjects, 1934, 109: 101.

STARR, I., JR. and A. J. RAWSON. A circulation schema, designed for the investigation of changes analogous to those occurring in failure of the heart and circulation, 1936, 116: 150.

Changes occurring in a circulation schema when failure of one or both sides of the heart is simulated, 1936, 116: 150.

STARR, I., JR. See GAMMON, STARR and BRONK, 1936, 116: 56.

STARTUP, C. W. See CRUICKSHANK and STARTUP, 1932, 99: 408.

STAVRAKY, G. Action of quinine and amytal on the salivary secretion, 1931, 97: 564.

STAVRAKY, G. W. See Babkin, Stavraky and Alley, 1932, 101: 2.

STEAD, E. A. See GREGERSEN, GIBSON and STEAD, 1935, 113: 54.

STECK, I. E., D. S. MILLER and C. I. REED. The effect of parathermone on basal metabolism of normal dogs, 1934, 110: 1.

STEELE, J. M. See COHN and STEELE, 1935, 113: 654.

STEELE, J. M., JR. See Anthony, Cohn and Steele, 1932, 102: 167.

STEENBOCK, H. See FELDMAN, VAN DONK, STEENBOCK and SCHNEIDERS, 1936,

See HAUCK, STEENBOCK and PARSONS, 1933, 103: 480, 489.

See Skinner, Van Donk and Steenbock, 1932, 101: 591.

See Van Donk, Feldman and Steenbock, 1934, 107: 616.

See Van Donk, Steenbock and Hart, 1933, 103: 468.

STEFFENSEN, E. H., J. M. BROOKHART and R. GESELL. Proprioceptive respiratory reflexes of the vagus nerve, 1937, 119: 517.

STEFFENSEN, E. H. See Brookhart, Steffensen and Gesell, 1936, 115: 357.

See Brookhart, Steffensen and Gesell, 1936, 116: 17.

See Brookhart, Steffensen and Gesell, 1937, 119: 280.

See Gesell, Steffensen and Brookhart, 1937, 120: 105.

STEGGERDA, F. R. Observations on the variation in water content of the fecal material along the colon, 1933, 105: 91.

Observations on the variation in water content of the fecal material along the colon, 1935, 112: 559.

The effects of extracts of the posterior hypophysis on the water interchange in muscle, 1930, 93: 691.

The relation of pitressin to water interchange in frogs, 1931, 98: 255.

STEGGERDA, F. R. and V. BOUTEN. Further studies on a case of dysfunctioning salivary glands in man, 1937, 119: 409. STEGGERDA, F. R. and H. E. ESSEX. A comparison of pituitrin, pitoein and pitressin on the water interchange in frogs, 1934, 109: 102.

STEGGERDA, F. R., H. E. ESSEX and F. C. MANN. The inactivation of histamine in perfused organs, 1935, 112: 70.

STEGGERDA, F. R. and C. GIANTURCO. A method for studying the response of the colon to various stimuli, in particular, pitressin and pitocin, 1936, 116: 150.

STEGGERDA, F. R. and C. C. GIANTURCO. A method for recording volume changes of the large intestine in normal dogs, with special reference to cathartics, 1935, 113; 126.

STEGGERDA, F. R. See Amberson, Flexner, Pankratz, Steggerda and Mulder, 1933, 105: 2.

See GIANTURCO and STEGGERDA, 1936, 116: 60.

See Jones and Steggerda, 1935, 112: 397.

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See Mulder, Amberson, Steggerda and Flexner, 1933, 105: 74.

STEGGERDA, M. and F. G. BENEDICT. Metabolism in Yucatan: A study of the Maya Indian, 1932, 100: 274.

STEIMAN, S. E. Conditions determining local graded contractions in the skeletal muscle fiber, 1935, 113: 126.

Factors determining the type of response in the fiber of striated muscle, 1937, 118: 492.

STEIMAN, S. E. and F. H. PRATT. Graded responses and conduction without apparent contraction, 1936, 116: 151.

STEINBERG, A. See ROWNTREE, CLARK, STEINBERG, EINHORN and HANSON, 1936, 116: 132, 133.

STEINER, N. See MEYER, GOLDEN, STEINER and NECHELES, 1937, 119: 600.

STEINHAUS, A. H., R. W. BOYLE and T. A. JENKINS. Studies in the physiology of exercise. IX. The chronic effects of running and swimming exercise on the heart of growing dogs, as determined electrocardiographically, 1932, 99: 503.

STEINHAUS, A. H. and V. R. DeYOUNG. Studies in the physiology of exercise. VI. The influence of treadmill running on the motility of the dog's colon, 1931, 97; 564.

STEINHAUS, A. H., L. A. HOYT and H. A. RICE. Studies in the physiology of exercise. X. The effects of running and swimming on the organ weights of growing dogs, 1932, 99: 512.

STEINHAUS, A. H. and T. A. JENKINS. Studies in the physiology of exercise.
IV. Further concerning exercise and basal metabolism in dogs, 1930, 95: 202.
Studies in the physiology of exercise. XI. The effect of physical training on the basal pulse rate, 1934, 109: 102.

STEINHAUS, A. H., T. A. JENKINS and J. J. LUNN. The heart rate of dogs breathing normal and oxygen-rich air, 1930, 92: 436.

STEINHAUS, A. H., J. P. KIRMIZ and K. LAURITSEN. Studies in the physiology of exercise. VIII. The chronic effects of running and swimming on the hearts of growing dogs as revealed by Roentgenography, 1932, 99: 487.

STEINHAUS, A. H. See DEYOUNG, RICE and STEINHAUS, 1931, 99: 52.

See Hastings and Steinhaus, 1931, 96: 538.

See RICE and STEINHAUS, 1930, 93: 683.

See RICE and STEINHAUS, 1931, 96: 529.

STELLA, G. See Bronk and Stella, 1932, 101: 14.
See Bronk and Stella, 1935, 110: 708.

STEPHENS, D. J. See Jones, Stephens, Todd and Lawrence, 1933, 105: 547. See Lawrence, Stephens and Jones, 1933, 106: 309.

STERN, B. See Ernstene, RISEMAN, STERN and ALEXANDER, 1935, 111: 440.

STERNER, J. H. and G. MEDES. The effect of certain sulfur compounds on the coagulation of blood, 1936, 117: 92.

STETSON, R. H., H. C. STEVENS and J. M. SNODGRASS. A comparison of the Piezo-electric myogram with the electrogram of mammalian muscle, 1934, 109: 103.

STEVENS, H. C., E. KARRER and J. SNODGRASS. The tension-length relation of striated muscle, 1932, 101: 97.

STEVENS, H. C. and R. P. METCALF. The decrement in muscular force with increasing speed of shortening, 1934, 107: 568.

The power output of striated muscle, 1933, 105: 91. STEVENS, H. C. and J. M. ROGOFF. Adrenalectomy and muscle fatigue, 1930,

STEVENS, H. C. and J. M. ROGOFF. Adrenalectomy and muscle fatigue, 1930, 93: 691.

STEVENS, H. C. and J. M. SNODGRASS. A quantitative study of the changes in power during muscular contraction, 1933, 104: 276.

STEVENS, H. C. See Karrer and Stevens, 1930, 94: 611.
See Stetson, Stevens and Snodgrass, 1934, 109: 103.

STEVENS, S. S. The psychophysiology of pitch and loudness, 1936, 116: 151.

STEVENS, S. S. and R. SOBEL. The central differentiation of synchronized action potentials in the auditory nerves, 1937, 119: 409.

STEVENS, S. S. See Davis and Stevens, 1937, 119: 296.

STEWART, C. C. Graphic analysis of frog heart tracings, 1932, 99: 308.

STEWART, C. C., C. G. McCLURE and D. R. STEWART. The compensatory pause, 1931, 97: 676.

STEWART, C. E. See Boldyreff, Lewis and Stewart, 1937, 119: 274.

STEWART, D. R. See Stewart, McClure and Stewart, 1931, 97: 676.

STEWART, G. N. and J. M. ROGOFF. Studies on adrenal insufficiency. IX.

The influence of extracts of adrenal cortex (sheep and cattle) on the survival period of adrenalectomised dogs and cats, 1929, 91: 254.

STEWART, H. L. See Cantarow, Stewart and McCool, 1935, 113: 25.

STEWART, J. F. and W. N. BOLDYREFF. Factors influencing the passage of liquids from the stomach into the intestine, 1932, 101: 96.

Factors influencing the passage of liquids from the stomach into the intestine, 1932, 102: 276.

STEWART, J. F. See BOLDYREFF and STEWART, 1932, 101: 11.

STEWART, L. See KELLER and STEWART, 1932, 101: 64.

STEWART, W. B. See Hughes, McCouch, Snape and Stewart, 1935, 113: 68.

See Hughes, McCouch and Stewart, 1936, 116: 83. See Hughes, McCouch and Stewart, 1937, 118: 411.

See McCouch, Snape and Stewart, 1935, 111: 263.

STICKELS, A. E. See Macht, Dunning and Stickels, 1932, 101: 70.

STILL, E. U. Studies on the physiology of secretin. I. On the preparation and isolation, 1930, 91: 405.

STILL, E. U., A. L. BENNETT and V. B. SCOTT. A study of the metabolic activity of the pancreas, 1933, 106: 509.

On the metabolism of the pancreas, 1933, 105: 91.

STILL, E. U., J. B. McBEAN and F. A. RIES. Studies on the physiology of secretin.
IV. The effect on the secretion of bile, 1931, 97: 565.

Studies on the physiology of secretin. IV. The effect on the secretion of bile, 1931, 99: 94.

STILL, E. U. and L. B. SHPINER. Studies on the physiology of secretin. II.

The effect of purified secretin on the blood sugar, 1930, 91: 496.

STILL, E. U. See BENNETT and STILL, 1933, 105: 4.

See BENNETT and STILL, 1933, 106: 454.

See BOWMAN, REGAN and STILL, 1935, 112: 438.

See GERARD and STILL, 1933, 103: 232.

See LA BARRE and STILL, 1930, 91: 649.

See RIES and STILL, 1930, 91: 609.

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See Scott and Still, 1935, 112: 511.

STINCHFIELD, F. See Talbert, Stinchfield and Staff, 1933, 105: 94.

See Talbert, Stinchfield and Staff, 1933, 106: 488.

STOLAND, O. O. and J. N. ESAU. The influence of liver extract on dogs suffering from parathyroid deficiency, 1930, 92: 35.

STOLAND, O. o. and A. M. GINSBERG. The effect of intravenous glucose injections on coronary circulation, 1933, 105: 92.

STOLAND, O. O., R. H. GREER and R. BLOOD. Chronic effects of nearly total ablation of the eerebellum, 1937, 119: 410.

STOLAND, O. O. and A. M. LANDS. Vasomotor reflexes following parathyroidectomy, 1930, 93: 691.

STOLAND, O. O. See ESAU and STOLAND, 1930, 92: 1, 25.

See POTTER and STOLAND, 1932, 99: 598.

STORMONT, R. T. and H. M. SEEVERS. The O₂ and CO₂ tension in tissues following prolonged hyperventilation, 1937, 119: 410.

STORMONT, R. T. See SEEVERS, HATHAWAY and STORMONT, 1936, 116: 140. See SEEVERS and STORMONT, 1936, 116: 140.

STORVICK, C. A. See Swanson and Storvick, 1934, 109: 103.

STRAIN, W. H. and M. E. MARSH. The effect of bile acids on the oxygen consumption of dog tissues, 1935, 113: 127.

The effect of bile salts on the oxygen consumption of dog tissues, 1936, 115: 82.

STRAUSS, M. B. See Buell, Anderson and Strauss, 1936, 116: 274.

STRUCK, H. C. and M. B. VISSCHER. Studies on changes with increasing age in the phosphorus fractions of various tissues of the rat, 1935, 113: 128.

STRUCK, H. C. See BARTOLI, COHEN and STRUCK, 1937, 119: 267.

See DEUTSCH, REED and STRUCK, 1936, 117: 1.

See REED, DEUTSCH and STRUCK, 1936, 116: 126.

See REED, HATHAWAY and STRUCK, 1935, 113: 108.

STRUGHOLD, H. A cinematographic study of systolic and diastolic heart size with special reference to the effects of anoxemia, 1930, 94: 641.

The mechanical threshold of the cornea-reflex of the usual laboratory animals, 1930, 94: 235.

STUART, H. A. and G. M. HIGGINS. Rhythmic changes in the fetal liver after feeding, 1935, 111: 590.

STUART, J. S. See Montgomery and Stuart, 1936, 115: 497.

STUCKY, C. J. See Rose and Stucky, 1930, 91: 513.

See Rose, Stucky and Cowgill, 1930, 91: 531, 547, 554.

See Rose, Stucky and Cowgill, 1930, 92: 83.

See Rose, Stucky and Mendel, 1930, 91: 520.

See Rose, Stucky, Mendel and Cowgill, 1931, 96: 132.

STUECK, G. See RALLI, FLAUM, JOFFE and STUECK, 1934, 107: 157.

STUECK, G. H. and E. P. RALLI. The application of the photoelectric colorimeter to the determination of carotene in the blood serum, liver and feces, 1937, 119: 411. SUGAR, O. The non-centrifugal degeneration of severed peripheral nerve, 1937, 119: 411.

SI

S

SULLIVAN, J. E. See Orth, Neild, Schamp, Sullivan and Burge, 1936, 116: 116. SULLIVAN, R. C. See Zwemer and Sullivan, 1934, 109: 117.

SUMMERVILLE, W. W., R. F. HANZAL and H. GOLDBLATT. Urea clearance in normal dogs, 1932, 102: 1.

SUMWALT, M. Potential differences across frog's skin as an index to its structure, 1935, 113: 128.

SUMWALT, M., W. H. ERB and H. C. BAZETT. The water and chloride exerction of decerebrate cats, 1935, 112: 386.

SUMWALT, M. and H. KRUEGER. The effect of various distending pressures on the activity of the dog's ileum, 1936, 116: 152.

SUNDERMAN, F. W. and J. H. AUSTIN. The measurement of serum volume, 1936, 117: 474.

SUNTZEFF, V. See Moore, Suntzeff and Loeb, 1935, 114: 1.

SUTCLIFFE, E. See CHAFFEE and SUTCLIFFE, 1930, 95: 250.

SUTHERLAND, G. F. and S. DWORKIN. Conditioned responses to sound and vibrations, 1932, 101: 97.

SUTHERLAND, G. F. See Liddell, Sutherland, Parmenter and Bayne, 1936, 116: 95.

See Liddell, Sutherland, Parmenter, Curtis and Anderson, 1937, 119: 361.

SUVARNAKICH, K. The vital capacity of the Siamese, 1932, 102: 267.

SUZMAN, M. M., G. L. MULLER and C. C. UNGLEY. An attempt to produce spinal cord degeneration in dogs fed a high cereal diet deficient in vitamin A. The incidental development of a syndrome of anemia, skin lesions, anorexia and changes in the concentration of blood lipoids, 1932, 101: 529.

SVIRBELY, J. L. The effect of diets and various substances on the vitamin C content of some organs of the rat, 1936, 116: 446.

SVIRBELY, J. L. and E. C. KENDALL. Vitamin C and the adrenal cortical hormone, 1936, 116: 187.

SWADESH, S. See MIRSKY, HEIMAN and SWADESH, 1937, 119: 376.
See MIRSKY, HEIMAN and SWADESH, 1937, 120: 681.

SWAN, D. R. See Lockwood, Swan and Hartman, 1936, 117: 553.

SWANN, H. G. The effect of diet on the survival of adrenalectomized rats, 1937, 118: 798.

The function of the brain in olfaction, 1935, 111: 257.

The influence of diet on the survival of adrenalectomized rats, 1935, 113: 129.

SWANSON, L. W. See Greene and Swanson, 1936, 116: 66.

SWANSON, P. P. and A. H. SMITH. Effect of restriction of inorganic salts in the diet on organ growth, 1936, 116: 516.

The effect on the albino rat of a ration deficient in inorganic constituents in which edestin serves as the source of protein, 1932, 101: 98.

SWANSON, P. P. and P. M. NELSON. Inability of the albino rat to bear and rear young on rations supposedly adequate in all respects in which canned pork muscle serves as the dietary protein, 1933, 105: 92.

SWANSON, P. P. and C. A. STORVICK. Effects induced by the incorporation of an infusion of coffee in an adequate ration fed albino rats, 1934, 109: 103.

SWANSON, P. P. See Smith and Swanson, 1931, 97: 561.

SWEENEY, H. M. and H. S. MAYERSON. A rubber-celluloid capsule for measuring venous pressure, 1936, 116: 153.

Effect of posture on cardiac output, 1937, 120: 329.

The effect of posture on human cardiac output, 1937, 119: 412.

SWEENEY, M. and E. SMITH. Experimental arteriosclerosis in the rat, 1930, 95: 620.

SWEET, J. E. See Chambers, Sweet and Chandler, 1935, 113: 26.

See Chambers, Sweet and Chandler, 1937, 119: 286.

See Page and Sweet, 1937, 120: 238.

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See Shorr, Richardson and Sweet, 1936, 116: 142.

SWEET, T. A. See HENDERSON and SWEET, 1929, 91: 94.

SWENSON, E. A. See CLARK, CLARK and SWENSON, 1933, 105: 19.

SWEZY, O. See Evans and Swezy, 1931, 96: 618.

SWIFT, R. W. The effects of low environmental temperature upon metabolism, 1931, 97: 565.

SWINDLE, P. F. Mechanical factors contributing to the exchange of fluids in the body: I. Conditions favorable to ejection, filtration, injection, aspiration and deflection of fluids through tubes and membranes, 1930, 93: 588.

Mechanical factors contributing to the exchange of fluids in the body: II. In the lungs of the mammal, 1930, 93: 600.

Mechanical factors contributing to the exchange of fluids in the body: III. In the aortic intercostal arteries of the mammal, 1930, 93: 607.

Mechanical factors contributing to the exchange of fluids in the body: IV. In the lungs and the ascending branches of the descending thoracic aorta of the bird, 1930, 93: 616.

Mechanical factors contributing to the exchange of fluids in the body: V. Exchange due to movements of systemic arteries at cardiac systole and diastole, 1933, 106: 95.

Mechanical factors contributing to the exchange of fluids in the body: VI.

Edema due to the failure of systemic arteries to loop at cardiac systole, 1933,

106: 105.

Occlusion of blood vessels by agglutinated red cells, mainly as seen in tadpoles and very young kangaroos, 1937, 120: 59.

Perivascular seep valves in the exchange of body fluids, 1936, 114: 491.

SWINGLE, W. W. and W. M. PARKINS. A comparative study of the effect of trauma on healthy vigorous dogs with and without adrenal glands, 1935, 111: 426

SWINGLE, W. W., W. M. PARKINS and A. R. TAYLOR. Experiments on intact and adrenalectomized dogs subjected to sodium and chloride depletion by intraperitoneal injections of glucose, 1936, 116: 430.

SWINGLE, W. W., W. M. PARKINS, A. R. TAYLOR and H. W. HAYS. A study of water intoxication in the intact and adrenal ectomized dog and the influence of adrenal cortical hormone upon fluid and electrolyte distribution, 1937, 119: 557.

Relation of serum sodium and chloride levels to alterations of body water in the intact and adrenal ectomized dog and the influence of renal cortical hormone upon fluid distribution, 1936, 116: 438.

The influence of adrenal cortical hormone upon electrolyte and fluid distribution in adrenal ectomized dogs maintained on a sodium and chloride free diet, 1937, 119: 684.

SWINGLE, W. W., W. M. PARKINS, A. R. TAYLOR, H. W. HAYS and J. A. MOR-RELL. Effect of oestrus (pseudopregnancy) and certain pituitary hormones on the lifespan of adrenalectomized animals, 1937, 119: 675.

SWINGLE, W. W. and J. J. PFIFFNER. Studies on the adrenal cortex: I. The effect of a lipid fraction upon the life-span of adrenalectomized cats, 1931, 96: 153. SWINGLE, W. W. and J. J. PFIFFNER.

Studies on the adrenal cortex: II. An aqueous extract of the adrenal cortex which maintains the life of bilaterally adrenal cotomized cats, 1931, 96: 164.

T

Studies on the adrenal cortex. IV. Further observations on the preparation and chemical properties of the cortical hormone, 1931, 98: 144.

The cortical hormone of the adrenal gland, 1931, 97: 566.

SWINGLE, W. W., J. J. PFIFFNER, H. M. VARS, P. A. BOTT and W. M. PARKINS. Studies on the function of the adrenal cortical hormone and the cause of death from adrenal insufficiency in dogs, 1933, 105: 93.

SWINGLE, W. W., J. J. PFIFFNER, H. M. VARS and W. M. PARKINS. The effect of fluid deprivation and fluid intake upon the revival of dogs from adrenal insufficiency, 1934, 108: 144.

The effect of hemorrhage on the normal and adrenal ectomized dog, 1934, 107: 259. The effect of sodium chloride administration upon adrenal ectomized dogs not receiving extract, 1934, 108: 159.

The relation between blood pressure, blood urea nitrogen and fluid balance of the adrenalectomized dog, 1934, 108: 428.

SWINGLE, W. W., H. M. VARS and W. M. PARKINS. A study of the blood volume of adrenalectomized dogs, 1934, 109: 488.

SWINGLE, W. W. See Parkins, Hays and Swingle, 1936, 117: 13.

See Parkins, Taylor and Swingle, 1935, 112: 581.

See Priffner and Swingle, 1931, 96: 180.

See Webster, Pfiffner and Swingle, 1932, 99: 710.

SYKES, J. F., N. B. TAYLOR and C. B. WELD. The effect of irradiated ergosterol and parathermone upon the phosphorus of the blood, 1934, 109: 104.

SYKES, J. F. See TAYLOR, WELD and SYKES, 1933, 105: 94.

See Taylor, Weld and Sykes, 1935, 113: 129. SZUREK, S. See Evans, Szurek and Kern, 1936, 117: 405.

T

TAFT, C. H., JR. See DAWSON, DUNCAN, HOLLAR and TAFT, 1935, 113: 34.

TAINTER, M. L. See Hall, Field, Sahyun, Cutting and Tainter, 1933, 106: 432.
TAIT, J. and N. J. BERRILL. Synchronism of heart and respiratory beat in Limulus, 1936, 116: 153.

TAIT, J. See McNally and Tait, 1936, 116: 100.

TALBERT, G. A., C. HAUGEN, R. CARPENTER and J. E. BRYANT. Simultaneous study of the constituents of the sweat, urine and blood; also gastric acidity and other manifestations resulting from sweating. X. Basic metals, 1933, 104: 441.

TALBERT, G. A., A. K. SAIKI, C. BORMAN, L. THOMPSON, D. RUDSER and J. BERGMEYER. Some comparative changes noted in the specific gravity, hemoglobin, corpuscle count, temperature, pH and CO₂ combining power of the blood as result of profuse sweating, 1930, 93: 692.

TALBERT, G. A., A. K. SAIKI, R. C. CARPENTER, J. BERGMEYER, H. STAFF, C. BORMAN and D. FREEMAN. Simultaneous study of the constituents of the sweat, urine and blood, also gastric acidity and other manifestations resulting from sweating. VIII. Blood changes, 1931, 97: 426.

TALBERT, G. A., F. STINCHFIELD and H. STAFF. Simultaneous study of the constituents of the sweat, urine and blood; also gastric acidity and other manifestations resulting from sweating. XI. Phosphorus and sulphur, 1933, 106: 488.

The secretion of phosphorus and sulphur in the sweat, 1933, 105: 94.

TALBERT, G. A. See BRYANT and TALBERT, 1931, 97: 509.

See CARPENTER and TALBERT, 1932, 101: 17.

See Saiki, Olmanson and Talbert, 1932, 100: 328.

TALLEY, E. E. See Pratt, Vanlandingham, Talley, Nelson and Johnson, 1932, 102: 148.

TANTURI, C. A. A study of the effect of variations in blood flow through the liver on the flow of bile, 1937, 119: 412.

TANTURI, C. A., A. C. IVY and H. GREENGARD. Secretin is a true cholagogue, 1937, 120: 336.

TASHIRO, S. and L. H. SCHMIDT. Is papain harmful, 1937, 119: 413.

TATELBAUM, A. J. See GOLDSTEIN and TATELBAUM, 1929, 91: 14.
See GOLDSTEIN, TATELBAUM, EHRE and MURLIN, 1932, 101: 166.

TATUM, H. J. See KOZELKA and TATUM, 1937, 119: 356.

TAYLOR, A. B. See BOELL and TAYLOR, 1932, 101: 10.

See WENNER and TAYLOR, 1930, 91: 365.

TAYLOR, A. R. See Parkins, Taylor and Swingle, 1935, 112: 581.

See Swingle, Parkins and Taylor, 1936, 116: 430.

See SWINGLE, PARKINS, TAYLOR and HAYS, 1936, 116: 438.

See Swingle, Parkins, Taylor and Hays, 1937, 119: 557, 684.

See Swingle, Parkins, Taylor, Hays and Morrell, 1937, 119: 675.

TAYLOR, F. V. See Jacobsen, Taylor and Haslerub, 1936, 116: 85.

TAYLOR, G. B., E. J. MANWELL, F. S. ROBSCHEIT-ROBBINS and G. H. WHIPPLE. Blood regeneration in severe anemia. XX. Conservation of sheep and goose hemoglobin given intravenously to form dog hemoglobin, 1930, 92: 408.

TAYLOR, G. W. See FITZHUGH, MILLER, TAYLOR and AUB, 1931, 97: 142.

TAYLOR, N. B. and A. FINE. The excretion of calcium through the intestine, 1930, 93: 544.

TAYLOR, N. B. and S. J. ROSENTHAL. The sympathomimetic action of guanidine sulphate, 1930, 93: 692.

TAYLOR, N. B. and C. B. WELD. Observations upon calcium absorption, 1932, 101: 99.

The source of the excess calcium in the sera of dogs receiving large doses of irradiated ergosterol, 1931, 97: 566.

TAYLOR, N. B., C. B. WELD and J. F. SYKES. Ergotoxin and rage, 1935, 113: 129.
Vagal innervation and parathermone, 1933, 105: 94.

TAYLOR, N. B. See SYKES, TAYLOR and WELD, 1934, 109: 104.

TEAGUE, R. S. and S. W. RANSON. The rôle of the anterior hypothalamus in temperature regulation, 1936, 117: 562.

TEITELBAUM, H. A. and F. A. RIES. A pharyngeal inspiratory reflex of the cat, 1934, 109: 105.

A study of the comparative physiology of the glossopharyngeal nerve—respiratory reflex in the rabbit, cat and dog, 1935, 112: 684.

TEITELBAUM, H. A., F. A. RIES and E. LISANSKY. The nerve pathways involved in the palatine and pharyngeal respiratory reflexes of the cat, 1936, 116: 505.

TELKES, M. Bioelectrical measurements on amoebae, 1931, 98: 475.

The measurement of short infra-red radiation from living organisms, 1934, 109: 105.

See Crile, Glasser, Telkes and Rowland, 1932, 101: 26.

See CRILE, TELKES and ROWLAND, 1931, 97: 516.

TEMPLES, A. K. See Woodbury, Hamilton, Torpin and Temples, 1937, 119: 423.

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TEMPLETON, R. D., W. F. BOLLENS, H. C. LAWSON, A. LUTZ, E. L. BORKON and E. A. GALAPEAUX. Apparatus used in the study of colon motility, 1936, 116: 153.

TEMPLETON, R. D. and E. A. GALAPEAUX. The influence of morphine on colon motility in the dog, 1937, 119: 414.

TEMPLETON, R. D. and H. LAWSON. Studies in the motor activity of the large intestine. I. Normal motility in the dog, recorded by the tandem balloon method, 1931, 96: 667.

Studies in the motor activity of the large intestine. IV. Response to autonomic drugs, 1932, 101: 511.

TEMPLETON, R. D. and M. C. PATRAS. Effects of thyroparathyroidectomy and of thyroid feeding in rats on limited intake of vitamin B, 1933, 105: 95.

TEMPLETON, R. D. and J. P. QUIGLEY. The action of insulin on the motility of the gastro-intestinal tract. II. Action on the Heidenhain pouch, 1930, 91: 467.

TEMPLETON, R. D. See BORKIN and TEMPLETON, 1937, 118: 775.

See Borkon, Templeton and Lawson, 1935, 123: 14.

See Chang, Patras and Templeton, 1937, 118: 423.

See Frey, Genitis, Schour and Templeton, 1936, 116: 53.

See Galapeaux, Borkon and Templeton, 1936, 116: 55.

See Galapeaux and Templeton, 1937, 119: 312.

See Genitis, Borkon and Templeton, 1935, 113: 48.

See Genitis, Towne, Patras and Templeton, 1936, 116: 58.

See Hummon, Patras and Templeton, 1936, 116: 84.

See Lawson and Templeton, 1931, 99: 87.

See Lawson and Templeton, 1932, 100: 362.

See Patras, Galapeaux and Templeton, 1936, 116: 119.

See Patras, Galapeaux and Templeton, 1937, 119: 382.

See Quigley and Templeton, 1930, 91: 475, 482.

See TWEEDY, TEMPLETON and McJunkin, 1936, 115: 514.

TENNANT, R. Factors concerned in the arrest of contraction in an ischemic myocardial area, 1935, 113: 677.

The effect of coronary occlusion on myocardial contraction, 1935, 113: 129.

TENNANT, R. and C. J. WIGGERS. The effect of coronary occlusion on myocardial contraction, 1935, 112: 351.

TEPPER, R. See HELLEBRANDT, TEPPER and CATHERWOOD, 1936, 116: 73.

TEPPER, R. H. See Hellebrandt, Braun and Tepper, 1937, 119: 331.

See Hellebrandt and Tepper, 1934, 107: 355.

THACKER, E. A. and L. M. DILLMAN. Effect of viosterol on excretion of nitrogen, calcium and phosphorus in normal dogs, 1931, 97: 567.

THACKER, E. A. See REED and THACKER, 1931, 96: 21.

THACKER, E. H. Effects of irradiated ergosterol on normal dogs, 1930, 93: 692. THIENES, C. H. See NEWMAN and THIENES, 1933, 104: 113.

THIESSEN, N. W. and A. M. SNELL. The variations of intragastric temperature in response to vasodilating agents, 1933, 105: 665.

THOMAS, C. B. Constriction of pial vessels in the unanesthetized cat produced by stimulation of the cervical sympathetic chain, 1936, 114: 278.

THOMAS, C. B. and C. M. BROOKS. The effect of sympathectomy on the vasomotor carotid sinus reflexes of the cat, 1935, 113: 130.

The effect of sympathectomy on the vasomotor carotid sinus reflexes of the cat, 1937, 120: 195.

THOMAS, C. I. See Ray and Thomas, 1932, 101: 86.

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THOMAS, J. E. A simple method for controlling the pH of oxygenated Locke's solutions, 1931, 97: 567.

THOMAS, J. E. and J. O. CRIDER. A study of pyloric function during gastric emptying of oil and hydrochloric acid solution, 1936, 116: 154.

Evidence that conditions normally present in the small intestine influence gastric peristalsis, 1933, 105: 95.

Rhythmic changes in duodenal motility associated with gastric peristalsis, 1935, 111: 124.

The effect of fat on the pH of the contents of the duodenum, 1936, 114: 603.

The effect on the pyloric sphincter of pressure changes in the duodenum, 1935, 113: 131.

THOMAS, J. E., J. O. CRIDER and C. J. MOGAN. A study of reflexes involving the pyloric sphincter and antrum and their rôle in gastric evacuation, 1934, 108: 683.

THOMAS, J. E. See CRIDER and THOMAS, 1932, 101: 25.
See Mogan and THOMAS, 1931, 97: 546.

THOMPSON, A. B. See Schlomovitz and Thompson, 1935, 113: 115. See Schlomovitz, Thompson and Glickman, 1935, 113: 115.

THOMPSON, E., H. A. HOWE and W. HUGHSON. Middle ear pressure and auditory acuity, 1934, 110: 312.

THOMPSON, L. See Talbert, Saiki, Borman, Thompson, Rudser and Bergmeyer, 1930, 93: 692.

THOMPSON, W. R. See Halpert, O'Connor and Thompson, 1935, 112: 383. See Halpert, Thompson and Marting, 1935, 111: 31.

THOMSON, D. L., C. M. HARLOW, L. I. PUGSLEY and H. SELYE. Parathyroid-ectomy in the fowl, 1936, 116: 154.

THOMSON, D. L, and L. I. PUGSLEY. On the mechanism of parathyroid hormone action, 1932, 102: 350.

THOMSON, D. L., H. SELYE and J. B. COLLIP. The effect of thyreotropic pituitary extracts on the hypophysis and the ovary, 1934, 109: 105.

THOMSON, D. L. See Bachman, Selye, Thomson and Collip, 1935, 113: 3.

See Black, Collip and Thomson, 1935, 113: 12.

See Collip, Selye and Thomson, 1934, 109: 22.

See Collip, Thomson, Browne, McPhail and Williamson, 1931, 97: 513.

See Kutz, Selye, Denstedt, Bachman, Thomson and Collip, 1934, 109: 66.

THOMSON, R. M. See BEHNKE, SHAW, MESSER, THOMSON and MOTLEY, 1936, 114: 526.

See Behnke, Shaw, Shilling, Thomson and Messer, 1934, 107: 13.

See Behnke, Thomson and Motley, 1935, 112: 554.

See Behnke, Thomson and Shaw, 1935, 114: 137.

See Shaw, Behnke, Messer, Thomson and Motley, 1935, 112: 545.

See Shilling, Thomson, Behnke, Shaw and Messer, 1934, 107: 29.

THOMSON, R. S. See Heim, Thomson and Bartter, 1935, 113: 548.

THORN, G. W. See EMERY and THORN, 1935, 113: 39.

See Gregersen and Thorn, 1937, 119: 320.

THORP, E. G., H. E. ESSEX and F. C. MANN. Studies on the fate of ephedrine in the dog, 1933, 105: 389.

THURSTON, E. W., J. E. SMADEL and L. LOEB. On the inhibiting action of cattle and sheep serum on kidney extracts of cattle and sheep, 1935, 114: 19.

TILOS, O. W. Note on the posture of the bird's wing, and its supposed control by sympathetic nerves, 1931, 98: 547.

TU

TIPTON, S. R. The calcium content of frog nerve, 1934, 109: 457.

TITELBAUM, S. See KLEITMAN and TITELBAUM, 1934, 109: 64.

See KLEITMAN and TITELBAUM, 1936, 115: 162.

See Kleitman, Titelbaum and Feiveson, 1935, 113: 82.

See Kleitman, Titelbaum and Hoffmann, 1937, 119: 48.

TITUS, H. W. See FRITZ, HENDRICKS and TITUS, 1936, 115: 281.

TOBIN, C. E. See GAUNT and TOBIN, 1936, 115: 588.

See Gaunt, Tobin and Gaunt, 1935, 111: 321.

TOBY, G. See HARTMAN, LEWIS and TOBY, 1937, 119: 328.

TOCANTINS, L. M. Platelets and the spontaneous syneresis of blood clots, 1934, 110: 278.

Platelets and the structure and physical properties of blood clots, 1936, 114: 709. Seasonal variations in the number of platelets in arterial, venous and cutaneous blood of man, 1937, 119: 439.

TODD, H. See Jones, Stephens, Todd and Lawrence, 1933, 105: 547.

TODD, W. R., C. A. ELVEHJEM and E. B. HART. Zinc in the nutrition of the rat, 1934, 107: 146.

TODD, W. R. See BURGET, TODD and WEST, 1937; 119: 283.

TOLLMAN, J. P. See DUNN and TOLLMAN, 1935, 113: 140.

TOMBOULIAN, R. L. See MURLIN, TOMBOULIAN and PIERCE, 1937, 120: 733.

TORPIN, R. See WOODBURY, HAMILTON, TORPIN and TEMPLES, 1937, 119: 423.

TOTH, L. A. The effects of epinephrine on urine excretion in dogs, 1937, 119: 140. Urine formation under anoxia in dogs, 1935, 113: 131.

Urine formation under anoxia in dogs, 1937, 119: 127.
TOWER, S. S. Extrapyramidal activity of the cat's cerebral cortex: motor and inhibitory, 1936, 116: 155.

The effects of sympathetic denervation of the mammalian tissues during the period of post-natal growth, 1932, 100: 295.

TOWNE, J. See Genitis, Towne, Patras and Templeton, 1936, 116: 58.

TRACE, J. See BARBOUR and TRACE, 1937, 118: 77.

TRAINOR, J. See Gellhorn, Gellhorn and Trainor, 1931, 97: 491.

TRAVIS, L. E. and R. Y. HERREN. Action currents in the cerebral cortex of the dog and the rat during reflex activity, 1930, 93: 693.

TULGAN, J. See Stein and Tulgan, 1930, 95: 174.

TUM SUDEN, C. Reactions of the rat uterus, excised and in situ, to histamine and in anaphylaxis, 1934, 108: 416.

The reactions of the uterus of the rat, before and after adrenal ectomy, to histamine and to anaphylaxis, 1934, 109: 106.

See WYMAN and TUM SUDEN, 1930, 93: 700.

See WYMAN and TUM SUDEN, 1930, 94: 579.

See WYMAN and TUM SUDEN, 1931, 97: 571.

See WYMAN and TUM SUDEN, 1932, 99: 285.

See WYMAN and TUM SUDEN, 1932, 101: 105, 282, 662.

See WYMAN and TUM SUDEN, 1934, 108: 424.

See WYMAN and TUM SUDEN, 1934, 109: 115.

See WYMAN and TUM SUDEN, 1935, 113: 271.

See WYMAN and TUM SUDEN, 1936, 116: 165, 182.

TUPIKOVA, N. and R. W. GERARD. Salt content of neural structures, 1937, 119: 414.

TUPIKOW, N. See COHEN, GERARD and TUPIKOW, 1934, 109: 22.

See GERARD and TUPIKOW, 1931, 97: 523.

TURNER, A. H. Serum protein of fishes: colloid osmotic pressure and other data, 1936, 116: 155.

The colloid osmotic pressure of the blood plasma in fishes, 1935, 113: 132.

TURNER, A. H. and F. G. BENEDICT. Basal metabolism and urinary nitrogen excretion of Oriental women, 1935, 113: 291.

TURNER, A. H., M. I. NEWTON and F. W. HAYNES. The circulatory reaction to gravity in healthy young women, 1930, 94: 507.

The circulatory reaction to gravity in healthy young women. Evidence regard-

ing its precision and its instability, 1930, 93: 693.

TURNER, A. H. See Campbell and Turner, 1936, 116: 24. See McIntire and Turner, 1934, 109: 72.

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TURNER, C. W. See GARDNER, GOMEZ and TURNER, 1935, 112: 673.

See Nelson, Turner and Overholser, 1935, 112: 714.
TURNER, E. L. and E. ABOUSHADID. The basal metabolism and vital capacity of Syrian women, 1930, 92: 189.

TURNER, R. G. Further investigations on the control of infections of the upper respiratory tract and middle ear, 1935, 113: 133.

TUTHILL, E. See GAMBLE, McKHANN, BUTLER and TUTHILL, 1934, 109: 139.

TUTTLE, W. W. The effect of submersion in water at various temperatures on physiological functions, 1930, 93: 694.

The response of the heart to exercises of graded intensity, 1937, 119: 415.

TWEEDY, W. R., R. D. TEMPLETON and F. A. McJUNKIN. The effect of complete renal insufficiency on the action of parathyroid hormone in the dog, 1936, 115: 514.

TYNDALE, H. H. and L. LEVIN. Ovarian weight responses to menopause during injections in normal, hypophysectomized and hypophysectomized thyroxintreated immature rats, 1937, 120: 486.

TYNDALE, H. H. See Levin and Tyndale, 1937, 119: 360.

U

ULEVICH, M. J. See Eyster, Krasno, Maaske and Ulevich, 1936, 116: 46. See Eyster, Krasno, Maaske and Ulevich, 1937, 120: 663.

ULRICH, J. L. and H. C. COOMBS. The appearance of decerebrate rigidity and other reflexes in young white rats, 1930, 93: 694.

UNDERHILL, F. P. and M. E. FISK. Studies on the mechanism of water exchange in the animal organism: IV. The composition of edema fluid resulting from a superficial burn, 1930, 95: 330.

Studies on the mechanism of water exchange in the animal organism: VII. An investigation of dehydration produced by various means, 1930, 95: 348.

Studies on the mechanism of water exchange in the animal organism: VIII. A study of dehydration by pilocarpine under varied dietary conditions, 1930, 95: 364.

UNDERHILL, F. P., M. E. FISK and R. KAPSINOW. Studies on the mechanism of water exchange in the animal organism: III. The extent of edema fluid formation induced by a superficial burn, 1930, 95: 325.

Studies on the mechanism of water exchange in the animal organism: V. The relationship of the blood chlorides to the chlorides of edema fluid produced by a superficial burn, 1930, 95: 334.

Studies on the mechanism of water exchange in the animal organism: VI. The composition of tissues under the influence of a superficial burn, 1930, 95: 339.

UNDERHILL, F. P., R. KAPSINOW and M. E. FISK. Studies on the mechanism of water exchange in the animal organism: I. The nature and effects of superficial burns, 1930, 95: 302.

Studies on the mechanism of water exchange in the animal organism: II. Changes in capillary permeability induced by a superficial burn, 1930, 95: 315.

UNDERWOOD, F. J. See Shafer, Underwood and Gaynor, 1930, 91: 461.

UNGLEY, C. C. See SUZMAN, MULLER and UNGLEY, 1932, 101: 529.

URBAN, F. See WHITE, URBAN and MONAGHAN, 1934, 109: 110.

V

VAN AUKEN, H. A. See DAVENPORT, FULTON, VAN AUKEN and PARSONS, 1934, 108: 99.

VANDOLAH, J. Levulose and galactose tolerance in Eck fistula dogs, 1935, 113: 133.
See Crandall, Vandolah and Fitz, 1934, 109: 25.

VANDOLAH, J. E. See SACKS, IVY, BURGESS and VANDOLAH, 1932, 101: 331.

VAN DONK, E. See SKINNER, VAN DONK and STEENBOCK, 1932, 101: 591.

VAN DONK, E. C., H. FELDMAN and H. STEENBOCK. An analysis of the anemia of pregnancy in the rat, 1934, 107: 616.

VAN DONK, E. C., H. STEENBOCK and E. B. HART. The nutritive deficiency of milk with specific reference to manganese, energy and pituitary relations, 1933, 103: 468.

VAN DONK, E. C. See FELDMAN, VAN DONK, STEENBOCK and SCHNEIDERS, 1936, 115: 69.

VAN DYKE, H. B. and G. CH'EN. The composition of the genital tract of the macaque at various stages of the menstrual cycle, 1935, 113: 133.

VAN DYKE, H. B. See Kunde, Van Dyke, Wallen-Lawrence, Kamm and Carlson, 1931, 97: 538.

VANLANDINGHAM, H. W. See Pratt, Vanlandingham, Talley, Nelson and Johnson, 1932, 102: 148.

VAN LIERE, E. J. The effect of prolonged anoxemia on the heart and spleen in the mammal, 1936, 116: 290.

VAN LIERE, E. J. and G. CRISLER. A study of vagospasm. The action of the vagus on the heart during acute anoxemia, 1933, 105: 469.

The action of the vagus on the heart in acute anoxemia with further observations on the question of cardiac tonus, 1932, 101: 100.

The effect of anoxemia on hunger contractions, 1930, 93: 267.

The effect of digitalis on cardiac dilatation produced by anoxemia, 1934, 109: 106. The effect of the vagus on the diastolic size of the heart and its bearing on the question of cardiac tonus, 1931, 97: 568.

The influence of the pericardium on acute cardiac dilatation produced by vagal stimulation, 1930, 93: 695.

The influence of the pericardium on acute cardiac dilatation produced by vagal stimulation, 1930, 94: 162.

The mechanism of the retarding effect of anoxemia on the emptying time of the stomach, 1933, 105: 96.

VAN LIERE, E. J., G. CRISLER and I. A. WILES. The effect of anoxemia on the pyloric sphincter, 1935, 111: 330.

VAN LIERE, E. J., N. A. DAVID and D. H. LOUGH. Absorption of water from the small intestine at various degrees of anoxemia, 1936, 115: 239.

The effect of anoxemia on the absorption of water from the small intestine, 1935, 113: 134.

VAN LIERE, E. J., D. H. LOUGH and C. K. SLEETH. The effect of anoxemia on the emptying time of the human stomach, 1936, 116: 156.

VAN LIERE, E. J. and C. K. SLEETH. Absorption of sodium chloride from the small intestine at various degrees of anoxemia, 1936, 117: 309.

The effect of pregnancy on the heart weight/body weight ratio in the mammal, 1937, 119: 416.

The effect of prolonged inanition on the heart weight/body weight (HW/BW) ratio in the mammal, 1936, 116: 635.

VAN LIERE, E. J., C. K. SLEETH and D. NORTHUP. The effect of acute hemorrhage on the emptying time of the stomach, 1936, 117: 226.

The relation of the size of the meal to the emptying time of the human stomach, 1937, 119: 480.

VAN LIERE, E. J. See Crisler, Booher, van Liere and Hall, 1933, 103: 68.

See Crisler and van Liere, 1931, 97: 516.

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See Crisler and van Liere, 1931, 98: 585.

See Crisler and van Liere, 1932, 101: 26.

See Crisler, van Liere and Booher, 1932, 102: 629.

See SLEETH and VAN LIERE, 1936, 116: 144.

See SLEETH and VAN LIERE, 1937, 118: 272.

VAN PROHASKA, J., L. R. DRAGSTEDT and H. P. HARMS. The relation of pancreatic juice to the fatty infiltration and degeneration of the liver in the depancreatized dog, 1936, 117: 166.

VAN PROHASKA, J., H. P. HARMS and L. R. DRAGSTEDT. The relation of pancreatic juice to the fatty infiltration and degeneration of the livers of depancreatized dogs, 1936, 116: 122.

VAN PROHASKA, J. See Dragstedt, Van Prohaska and Harms, 1936, 116: 36.

See Dragstedt, Van Prohaska and Harms, 1936, 116: 175.

See Dragstedt, Van Prohaska and Harms, 1937, 119: 298.

See Harms, Van Prohaska and Dragstedt, 1936, 116: 70.

See Harms, Van Prohaska and Dragstedt, 1936, 117: 160.

VAN SLYKE, D. D., A. HILLER and B. F. MILLER. The clearance, extraction percentage and estimated filtration of sodium ferrocyanide in the mammalian kidney. Comparison with inulin, creatinine and urea, 1935, 113: 611.

The distribution of ferrocyanide, inulin, creatinine and urea in the blood and its effect on the significance of their extraction percentages, 1935, 113: 629.

VAN SLYKE, D. D., C. P. RHOADS, A. HILLER and A. S. ALVING. Relationships between urea exerction, renal blood flow, renal oxygen consumption, and diuresis. The mechanism of urea exerction, 1934, 109: 336.

VAN SLYKE, D. D., C. P. RHOADS, A. HILLER and A. ALVING. The relationship of the urea clearance to the renal blood flow, 1934, 110: 387.

VAN SLYKE, D. D. See Rhoads, Alving, Hiller and Van Slyke, 1934, 109: 329. See Rhoads, Van Slyke, Hiller and Alving, 1934, 110: 392.

VAN WAGENEN, G. Uterine bleeding of monkeys in relation to neural and vascular processes. I. Spinal transection and menstruation, 1933, 105: 473.

VAN WAGENEN, G. and S. B. D. ABERLE. Menstruation in Pithecus (Macacus) rhesus following bilateral and unilateral ovariectomy performed early in the cycle, 1931, 99: 271.

VAN WAGENEN, G. and A. H. MORSE. Frequency and position of ovulation in the monkey ovary, 1937, 119: 416.

VAN WAGENEN, G. and S. ZUCKERMAN. Uterine bleeding of monkeys in relation to neural and vascular processes. II. Spinal-cord transection and the oestrin-level, 1933, 106: 416.

VANZANT, F. R. Late effects of section of the vagus nerves on gastric acidity, 1932, 99: 375.

VARS, H. M. Blood fibrin studies. The concentration of fibrin yielded by canine plasma in relation to dietary factors, 1930, 93: 554.

VARS, H. M. See Swingle, Pfiffner, Vars, Bott and Parkins, 1933, 105: 93.
See Swingle, Pfiffner, Vars and Parkins, 1934, 107: 259.

See Swingle, Pfiffner, Vars and Parkins, 1934, 108: 144, 159, 428. See Swingle, Vars and Parkins, 1934, 109: 488.

VASTI, A. The insensible water loss through the skin, 1932, 102: 60.

VEACH, H. O., L. L. SCHWARTZ and M. WEINSTEIN. Studies on the innervation of smooth muscle. V. On the relation of vagal gastric effects to Wedensky inhibition, 1930, 92: 453.

VENNESLAND, B. See HOLT, KEETON and VENNESLAND, 1936, 114: 515.

VENNING, E. M. and J. S. L. BROWNE. Urinary excretion of sodium pregnandiol glucuronidate in the menstrual cycle, 1937, 119: 417.

VENNING, E. M. See Browne and Venning, 1936, 116: 18.

VERDA, D. J., O. S. ORTH and W. E. BURGE. The effect of ultra-violet radiation on the pressor action of nicotine, 1932, 101: 100.

VERDA, D. J., E. WILLIAMS, G. C. WICKWIRE and W. E. BURGE. A study of the effect of a variety of substances on the rate of sugar utilization, 1930, 93: 696.

VICKERY, H. B. See REED, MENDEL and VICKERY, 1932, 102: 285.

VICTOR, J. Metabolic and irritability changes in nutritional myopathy of rabbits and ducks, 1934, 108: 229.

The effects of sugar and electrolyte solutions on the metabolism and irritability of heart muscle, 1933, 103: 620.

The metabolism of single normal mouse lymph nodes, 1935, 111: 477.

VICTOR, J. and D. H. ANDERSEN. Stimulation of anterior hypophysis metabolism by theelin or dihydrotheelin, 1937, 120: 154.

The effect of oestrus and spaying on pituitary metabolism, 1936, 115: 130.

VICTOR, J., D. H. ANDERSEN and M. R. PREST. Changes in tissue metabolism in oestrual, dioestrual and spayed rats, 1936, 115: 121.

VICTOR, J. See Andersen, Prest and Victor, 1937, 119: 445.

VINEBERG, A. M. The activation of different elements of the gastric secretion by variation of vagal stimulation, 1931, 96: 363.

VINEBERG, A. M. and B. P. BABKIN. Histamine and pilocarpin in relation to the gastric secretion, 1931, 97: 69.

VINEBERG, A. M. and J. S. L. BROWNE. Experiments on acid-base equilibrium in relation to gastric secretion, 1931, 97: 568.

VINEBERG, A. M. and S. A. KOMAROV. The influence of the vagus nerve on esophageal secretion, 1933, 104: 73.

VISSCHER, M. B. The influence of the interval between contraction upon the magnitude of the chemical change in each contraction in striated muscle, 1930, 93:696.

VISSCHER, M. B. and R. C. INGRAHAM. Factors influencing the movement of chloride against its diffusion gradient between intestine and blood, 1935, 113: 134.

On the establishment of a membrane equilibrium in the dynamic ultrafiltration process, 1932, 101: 101.

The movement of univalent cations against concentration gradients from small intestine to the blood in the presence of polyvalent ions, 1936, 116: 157.

VISSCHER, M. B. and A. G. MULDER. The carbohydrate metabolism of the heart, 1930, 94: 630.

VISSCHER, M. B. and P. W. SMITH. The relation between contraction frequency and lactate accumulation, and its bearing upon the economy of tension production and maintenance in striated muscle, 1930, 95: 121.

VISSCHER, M. B. See BURNS and VISSCHER, 1934, 110: 490.

See Decherd and Visscher, 1933, 103: 400.

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See Gelfan and Visscher, 1937, 120: 365.

See Ingraham and Visscher, 1936, 114: 676, 681.

See Moldavsky and Visscher, 1933, 106: 329.

See Peters, Rea and Visscher, 1933, 105: 79.

See Peters and Visscher, 1935, 113: 105.

See Smith and Visscher, 1930, 95: 130.

See Smith and Visscher, 1931, 97: 562.

See Smith and Visscher, 1932, 102: 448. See Struck and Visscher, 1935, 113: 128.

VOEGTLIN, C., R. H. FITCH, H. KAHLER and J. M. JOHNSON. The hydrogenion concentration of mammalian voluntary muscle under various conditions, 1934. 107: 539.

VOEGTLIN, C. See KAHLER, DE EDS, ROSENTHAL and VOEGTLIN, 1929, 91: 225.

VOEGTLIN, W. See SANDBLOM and VOEGTLIN, 1934, 109: 92.

VOEGTLIN, W. L., H. GREENGARD and A. C. IVY. The response of the canine and human pancreas to secretion, 1934, 110: 198.

VOEGTLIN, W. L., E. G. McEWEN and A. C. IVY. On the humoral agents concerned in the causation of gall-bladder contraction, 1933, 103: 121.

VOEGTLIN, W. L. See SANDBLOM, VOEGTLIN and IVY, 1935, 113: 175.

VOGT, E. and W. F. HAMILTON. Determination of the concentration of "heavy water" by means of the falling drop method, 1935, 113: 135.

VOGT, E. See Allen and Vogt, 1937, 119: 259, 260, 776.

VOLPITTO, P. P. See MEEK and VOLPITTO, 1936, 116: 109.

VON AMMON, W. See Granit and Von Ammon, 1930, 95: 229.

VON FREY, M. Mechanism of temperature sensations, 1930, 94: 505.

w

WADE, L. J. See Schmitt and Wade, 1934, 109: 93.
See Schmitt and Wade, 1935, 111: 159, 169.

WADSWORTH, A., F. MALTANER and E. MALTANER. Further studies of the chemical reactions underlying the coagulation of the blood. The activity of cephalin, 1931, 97: 74.

Further studies of the chemical reactions underlying the coagulation of the blood. The activity of lecithin, 1930, 91: 423.

The anticoagulative action of organic acids, and of heparin and the organic base, diethylamine, 1937, 119: 80.

WAKEFIELD, E. G. See KEITH, WAKEFIELD and POWER, 1932, 101: 63. See Power, Keith and Wakefield, 1935, 113: 107.

WAKERLIN, G. E. The relation of the reticulocytogenic urine principle to the hemopoietic or antipernicious anemia liver principle, 1937, 119: 417.

WAKERLIN, G. E., H. D. BRUNER and J. M. KINSMAN. The presence in normal human urine of a reticulocyte stimulating principle for the pigeon, 1935, 113: 135. WALD, G. Carotenoids and vision, 1934, 109: 107.

WALD, G. and A.-B. CLARK. Sensory adaptation and chemistry of the retinal rods, 1936, 116: 157.

WALD, G. See HECHT, WALD and HAIG, 1932, 101: 52.

WALD, H. See GUERNSEY, WALD and SCOTT, 1933, 105: 42.

WALDEN, G. B. See ROBSCHEIT-ROBBINS, WALDEN and WHIPPLE, 1935, 113: 467.
 WALKER, A. M. and C. L. HUDSON. The reabsorption of glucose from the renal tubule in Amphibia and the action of phlorizin upon it, 1937, 118: 130.

The rôle of the tubule in the excretion of inorganic phosphates by the amphibian kidney, 1937, 118: 167.

The rôle of the tubule in the excretion of urea by the amphibian kidney, 1937, 118: 153.

WALKER, A. M., C. L. HUDSON, T. FINDLEY, JR. and A. N. RICHARDS. The total molecular concentration and the chloride concentration of fluid from different segments of the renal tubule of Amphibia, 1937, 118: 121.

WALKER, A. M., A. N. RICHARDS, C. L. HUDSON, T. FINDLEY and R. T. KEMP-TON. Changes in the glomerular filtrate during passage through the tubule in amphibia. I. Sugar, chloride, and total molecular concentration, 1934, 109: 107.

WALKER, A. M., C. F. SCHMIDT, K. A. ELSOM and C. G. JOHNSTON. Renal blood flow of unanesthetized rabbits and dogs in diuresis and antidiuresis, 1937. 118: 95.

WALKER, A. M. See Elsom, Bott and Walker, 1937, 118: 739.

See RICHARDS and WALKER, 1937, 118: 111.

See Richards, Walker, Hudson and Hendrix, 1934, 109: 87.

See SCHMIDT and WALKER, 1936, 116: 137.

WALKER, F. and L. SHEPPARD. A study of the variations in the saccharogenic power of human saliva, 1935, 111: 192.

WALKER, M. A. and N. M. KEITH. The effect of a solution of acacia in restoring diminished body fluid, 1930, 95: 561.

WALKER, M. A. See KEITH and WALKER, 1930, 93: 663.

WALKER, R. and E. M. NELSON. Fresh and dried yeast as sources of vitamin B, 1933, 103: 25.

WALLACE, G. B. See Sapirstein, Herman and Wallace, 1937, 119: 549.

WALLEN-LAWRENCE, Z. See Kunde, Van Dyke, Wallen-Lawrence, Kamm and Carlson, 1931, 97: 538.

WALLER, W. H. and R. W. BARRIS. Pupillary inequality in the cat following experimental lesions of the occipital cortex, 1937, 120: 144.

WALSH, E. L. Contraction and evacuation of the gall bladder of the rabbit produced by cholecystokinin, 1932, 100: 594.

Contraction and evacuation of the gall bladder of the rabbit produced by cholecystokinin, 1932, 101: 101.

WALSH, E. L., W. K. CUYLER and D. R. McCULLAGH. The physiologic maintenance of the male sex glands. The effect of androtin on hypophysectomized rats, 1934, 107: 508.

WALTERS, C. E. See HELLEBRANDT, WALTERS and MILLER, 1936, 116: 168.

WALTERS, O. S. Inactivity as a factor in erythrocyte and hemoglobin variations, 1933, 105: 96.

Reticulocytogenic action of pernicious anemia urine extracts, 1936, 116: 158. The erythrocyte count, quantity of hemoglobin and volume of packed cells in normal human subjects during muscular inactivity, 1934, 108: 118.

The variation of erythrocytes, hemoglobin and packed cell volume in immediately consecutive samples of venous blood, 1934, 110: 37.

WALTERS, O. S., J. J. DELVECCHIO and A. B. HERTZMAN. Erythrocyte variations in normal men following insulin, 1937, 119: 418.

WALTERS, O. S. and P. H. WOODARD. Observations on the blood of normal human subjects during fetal liver feeding, 1933, 104: 364.

WARD, A. A., JR. See Dusser de Barenne and Ward, 1937, 120: 340.

WARD, H. K. See Drinker, Field, Ward and Lyons, 1935, 112: 74.

WARDLAW, H. C. H. See Daggs and Wardlaw, 1932, 101: 27.

WARNER, C. G. See Horine and Warner, 1933, 105: 562.

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WARNER, E. D., K. M. BRINKHOUS and H. P. SMITH. A quantitative study on blood clotting: prothrombin fluctuations under experimental conditions, 1936, 114: 667.

Bleeding tendency in chloroform poisoning, 1937, 119: 418.

WARNER, E. D. See Smith, Warner and Brinkhous, 1934, 107: 63.

WARREN, C. O., JR. The oxygen consumption of rabbit bone marrow in relation to its morphology, 1934, 110: 61.

WARREN, C. R. See LIGHT and WARREN, 1936, 117: 658.

WARREN, S. L. See NASSET, BISHOP and WARREN, 1931, 96: 439.

WARWEG, E. See Amberson, Stanbury and Warweg, 1936, 116: 1.

See Stanbury, Warweg and Amberson, 1936, 117: 230.

WASSERMAN, P. See Cohen, Rudolph, Wasserman and Rogoff, 1933, 106: 414. See Rogoff, Wasserman and Hoecker, 1931, 97: 555.

WATERHOUSE, A. See Ralli, Pariente, Flaum and Waterhouse, 1933, 103: 458.

WATERHOUSE, A. M. and E. P. RALLI. The effect of insulin in conjunction with posture on the blood concentration in deparcreatized dogs, 1934, 109: 422.

WATERS, E. T. and J. MARKOWITZ. The effect of hepatectomy on the inorganic phosphate of the blood, 1935, 113: 136.

WATERS, E. T. See GRIFFITHS and WATERS, 1936, 117: 134.

WATKINS, O. and G. V. SMITH. Biochemical studies on the effect of adrenalin upon the nitrogen metabolism of rabbits, 1931, 96: 28.

WATKINS, O. See SMITH and WATKINS, 1930, 94: 586.

WATROUS, W. G. See Blum, Watrous and West, 1935, 113: 350.

WATTS, J. W. See Fulton, Kennard and Watts, 1934, 109: 37.

See Ruch and Watts, 1933, 105: 86.

See Ruch and Watts, 1934, 109: 91.

See Ruch and Watts, 1934, 110: 362.

WEARN, J. T., A. C. ERNSTENE, A. W. BROMER, J. S. BARR, W. J. GERMAN and L. J. ZSCHIESCHE. The normal behavior of the pulmonary blood vessels with observations on the intermittence of the flow of blood in the arterioles and capillaries, 1934, 109: 236.

WEAVER, W. K. See LIPOW and WEAVER, 1930, 93: 667.

WEBSTER, B., J. J. PFIFFNER and W. W. SWINGLE. The effect of the adrenal cortical hormone upon the respiratory metabolism of the cat, 1932, 99: 710.

WEBSTER, D. R. and S. A. KOMAROV. The presence of a soluble muco-protein in the gastric juice, 1931, 97: 569.

WEBSTER, F. A. See NEWMAN, DILL, EDWARDS and WEBSTER, 1937, 118: 457. WECKESSER, E. C. See Cunningham, Rand and Weckesser, 1934, 107: 164.

WEDD, A. M. The influence of rate and temperature change and of various cardiac drugs on rhythmicity, contractility, and the refractory period of the turtle heart. 1934. 108: 265.

WEED, L. H. Forces concerned in the absorption of the cerebrospinal fluid, 1935, 114: 40. WEED, L. H. and L. B. FLEXNER. Cerebrospinal elasticity in the cat and macaque, 1932, 101: 668.

The relations of the intracranial pressures, 1933, 105: 266.

WEED, L. H., L. B. FLEXNER and J. H. CLARK. The effect of dislocation of cerebrospinal fluid upon its pressure, 1932, 100: 246.

WEED, L. H. See CLARK, HOOKER and WEED, 1934, 109: 166.

See Flexner, Clark and Weed, 1932, 101: 292.

See FLEXNER and WEED, 1933, 104: 681.

See FLEXNER and WEED, 1933, 105: 571.

See Mortensen and Weed, 1934, 108: 458.

WEIL, A., F. R. ZEISS and D. A. CLEVELAND. The determination of the amount of blood in the central nervous system after injection of hypertonic solutions, 1931, 98: 363.

WEINBACH, A. and D. B. CALVIN. The in vitro synthesis of non-fermentable reducing materials by active mammary gland, 1934, 109: 108.

WEINSTEIN, G. See FRIEDMAN and WEINSTEIN, 1936, 116: 54.

WEINSTEIN, G. L. and A. W. MAKEPEACE. The influence of pseudopregnancy on follicular sensitivity to pregnancy urine extracts, 1937, 119: 508.

WEINSTEIN, G. L., S. R. M. REYNOLDS and M. H. FRIEDMAN. Studies on the uterus. VII. Anaphylactic response of the non-gravid uterus of the unanesthetized rabbit, 1931, 98: 237.

WEINSTEIN, G. L. See MAKEPEACE, WEINSTEIN and FRIEDMAN, 1937, 119: 512.

WEINSTEIN, J. See Abramson and Weinstein, 1935, 111: 382. See Abramson and Weinstein, 1936, 115: 569.

WEINSTEIN, M. See VEACH, SCHWARTZ and WEINSTEIN, 1930, 92: 453.

WEINSTEIN, W., K. JOCHIM and A. BOHNING. The action of acetyl-betamethylcholine and epinephrine on the denervated coronary vessels, 1935, 113: 136.

WEINSTEIN, W. See Johnson, Hamilton, Katz and Weinstein, 1937, 119: 344. See Johnson, Hamilton, Katz and Weinstein, 1937, 120: 624.

See Katz, Weinstein and Jochim, 1935, 113: 76. WEISER, R. S. See Norris and Weiser, 1937, 119: 642.

WEISS, P. A study of motor coördination and tonus in deafferented limbs of Amphibia, 1936, 115: 461.

Salamanders with interchanged right and left fore limbs, displaying reversed locomotion, 1936, 116: 159.

The function of interchanged fore limbs in salamanders, 1936, 116: 158.

The influence of stretch on the length of survival of isolated muscles, 1933, 106: 156.

WELCH, A. DeM. Observations on epinephrine oxidation and stabilization, 1934, 108: 360.

WELCH, M. S. and L. IRVING. A study of the choline oxidizing enzyme, 1936, 116: 159.

WELCH, M. S., L. IRVING and C. H. BEST. The effect of choline on the oxygen consumption of normal and fatty livers of the rat, 1935, 113: 136.

WELCH, M. S. See IRVING and WELCH, 1934, 109: 58.

WELD, C. B. See SYKES, TAYLOR and WELD, 1934, 109: 104.

See TAYLOR and WELD, 1931, 97: 566.

See TAYLOR and WELD, 1932, 101: 99.

See TAYLOR, WELD and SYKES, 1933, 105: 94.

See TAYLOR, WELD and SYKES, 1935, 113: 129.

WELKER, W. H., G. GILMAN and L. HEKTOEN. The presence of fibringen and pseudoglobulin in fibrin digests, 1933, 106: 475.

WELLS, H. S. Some criteria of accuracy for the measurement of the osmotic pressure of colloids in biological fluids, 1932, 101: 409.

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The concentration and osmotic pressure of the proteins in blood serum and in lymph from the lacteals of dogs, 1932, 101: 421.

The osmotic pressure of the colloids of lymph from the lacteals as a measure of the absorbing force of the intestine, 1932, 101: 101.

The passage of materials through the intestinal wall. I. The relation between intra-intestinal pressure and the rate of absorption of water from isotonic solutions, 1931, 99:.209.

The passage of materials through the intestinal wall. II. The osmotic pressure of the colloids of lymph from the lacteals as a measure of the absorbing force of the intestine, 1932, 101: 434.

WELLS, H. S. and R. G. JOHNSON. Observations on the intestinal villi and their circulation, 1934, 109: 108.

The intestinal villi and their circulation in relation to absorption and secretion of fluid, 1934, 109: 387.

WELLS, H. S., D. G. MILLER, JR. and J. B. YOUMANS. Relations of tissue pressure to venous pressure, capillary filtration and other factors, 1937, 119: 419.

WELLS, H. S., J. B. YOUMANS and D. G. MILLER. Methods for the direct determination and calculation of the osmotic pressure of colloids in biological fluids, 1933, 105: 97.

WENNER, W. F. and E. W. BLANCHARD. Effect of intravenous injection of alkali on the action of curare, 1930, 91: 563.

WENNER, W. W. and A. B. TAYLOR. The effect of changes in acid-base equilibrium on reflex time, 1930, 91: 365.

WERCH, S. C. and S. S. ALTSHULER. A study of the blood sugar raising substance in the urine of diabetic and non-diabetic patients, 1937, 118: 659.

WERTENBERGER, G. E. The effect of experimental hyperthyroidism on hunger contractions in the bull-frog, 1933, 104: 624.

WERTENBERGER, G. E., M. E. COLLETT and J. T. SMITH. The effect of theelin and amniotin upon the BMR and the hot flashes of ovariectomized women, 1936, 116: 159.

WERTENBERGER, G. E. See COLLETT, WERTENBERGER, SCHOTT, LAWTON, HARLOR and REED, 1935, 113: 29.

WERTHESSEN, N. The significance of subnormal respiratory quotient values induced by controlled feeding in the rat, 1937, 120: 458.

WERTHESSEN, N. and G. PINCUS. Multiple ovaries in mice, 1933, 104: 117.

WERTHESSEN, N. See Pincus and Werthessen, 1933, 103: 631.

WERTHESSEN, N. T. See PINCUS and WERTHESSEN, 1937, 120: 100.

WESSON, L. G. Metabolic rates and respiratory quotients of rats following the ingestion of dextrin, 1930, 93: 697.

WEST, E. S. See BURGET, TODD and WEST, 1937, 119: 283.

WEST, F. E. See Pendleton and West, 1932, 101: 391.

WEST, R. J. See Blum, Watrous and West, 1935, 113: 350.
See Blum and West, 1936, 116: 12.

WESTFALL, B. B. and J. P. HENDRIX. The molecular weight of inulin and the mode of its renal excretion in Amphibia, 1936, 116: 160.

WESTFALL, B. B. See RICHARDS, WESTFALL and BOTT, 1936, 116: 128.

WESTRA, J. J. Studies on the action of the alkali iodides, 1934, 109: 450.
The effects of prolonged administration of potassium iodide in rabbits, 1933, 105: 98.

WESTRA, J. J. and M. M. KUNDE. Blood cholesterol in experimental hypo- and hyperthyroidism (rabbit), 1933, 103, 1.

WESTRA, J. J. and W. A. SELLE. Effect of barbiturates on the absorption of glucose from intestinal loops, 1934, 109: 109.

WHEELER, T. See SANDIFORD, WHEELER and BOOTHBY, 1931, 96: 191.

WHELAN, M. Alterations of acid-base values during the ingestion of ammonium nitrate, 1930, 93: 697.

WHELAN, M. and H. A. SHOEMAKER. The chloride and total base contents of tendon and cartilage, 1936, 115: 476.

WHIPPLE, D. V. and O. M. WOLF. The value of oysters in nutritional anemia, 1931, 97: 569.

WHIPPLE, G. H. and F. S. ROBSCHEIT-ROBBINS. Blood regeneration in severe anemia: XVI. Optimum iron therapy and salt effect, 1930, 92: 362.

Blood regeneration in severe anemia: XVIII. Influence of liver, blood sausage, veal, eggs, chicken and gelatin, 1930, 92: 388.

Control basal diets in anemic dogs, 1936, 115: 651.

Hemoglobin production factors in the anemic horse liver, 1934, 108: 270.

WHIPPLE, G. H. See FAIRMAN and WHIPPLE, 1933, 104: 352.

See Hawkins, Sribhishaj, Robscheit-Robbins and Whipple, 1931, 96: 463.

See Robscheit-Robbins, Walden and Whipple, 1935, 113: 467.

See Robscheit-Robbins and Whipple, 1930, 92: 378, 400.

See Robscheit-Robbins and Whipple, 1934, 108: 279.

See Robscheit-Robbins and Whipple, 1935, 112: 27.

See Sribhishaj, Hawkins and Whipple, 1931, 96: 449. See Taylor, Manwell, Robscheit-Robbins and Whipple, 1930, 92: 408.

WHITE, F. See GESELL and WHITE, 1937, 119: 317.

WHITE, H. L. A conductivity cell with a capacity of a few tenths of a cubic centimeter, 1936, 116: 160.

A micro conductance cell, 1933, 105: 98.

Further observations on glomerular function, 1932, 102: 222.

Pituitary gland influences on water balance in the rat, 1937, 119: 5.

The molecular concentration of glomerular fluid, 1932, 101: 102.

WHITE, H. L. and T. FINDLEY, JR. Time relations in renal excretion of threshold and no-threshold substances, 1937, 119: 419, 740.

WHITE, H. L. and P. HEINBECKER. Pituitary regulation of water exchange in the dog and monkey, 1937, 118: 276.

WHITE, H. L. and B. MONAGHAN. A comparison of the clearances of creatinine and of various sugars, 1933, 106: 16.

A comparison of the clearances of various urinary constituents, 1933, 104: 412. Clearances of urinary constituents, 1933, 105: 98.

Factors influencing the sinking velocity of red cells, 1935, 113: 137.

Properties of red cell surfaces influencing rouleau formation, 1936, 115: 31.

WHITE, H. L., B. MONAGHAN and A. S. HARRIS. Observations on the nervous control of the ileo-cecal sphincter and on intestinal movements in an unanesthetized human subject, 1934, 109: 109.

WHITE, H. L., W. R. RAINEY, B. MONAGHAN and A. S. HARRIS. Observations on the nervous control of the ileo-caecal sphincter and on intestinal movements in an unanesthetized human subject, 1934, 108: 449. WHITE, H. L., F. URBAN and B. MONAGHAN. Filtration through cellophane membranes, 1934, 109: 110.

WHITE, J. and R. W. BUNTING. A comparison of the chemical composition of stimulated and resting saliva of caries-free and caries-susceptible children, 1936, 117: 529.

WHITE, J. C., M. E. FIELD and C. K. DRINKER. On the protein content and normal flow of lymph from the foot of the dog, 1933, 103: 34.

WHITE, J. C. See Freeman, Smithwick and White, 1934, 107: 529.

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WHITE, V. See Moore, Plymate, Andrew and White, 1932, 102: 566, 573.
See Moore, Plymate and White, 1932, 102: 593.

WHITE, W. E. The effect on ovulation and pregnancy of blocking the pituitary circulation in the rabbit, 1932, 102: 505.

WHITE, W. E. and S. L. LEONARD. Ovarian responses to prolan and anterior pituitary extract in hypophysectomized rabbits with particular reference to ovulation, 1933, 104: 44.

WHITEHEAD, R. W. See Fox and WHITEHEAD, 1935, 113: 44. See Huddleston, Whitehead and Moritz, 1936, 116: 82.

WHITEHORN, J. C. and H. LUNDHOLM. The relation between stature and the latent period of the knee jerk, 1930, 92: 214.

WHITELAW, G. P. and J. C. SNYDER. The physiological production of sympathin in the liver, 1934, 110: 247.

WICKWIRE, G. C. and W. E. BURGE. A comparison of the toxicity and of the effect on sugar metabolism of the alkaloids from several different brands of cigarettes, 1930, 93: 697.

Further study on the stimulating effect of copper on chlorophyl formation, 1934, 109: 111.

The threshold stimulus of the knee jerk as an index to physical fitness, 1936, 116: 161.

WICKWIRE, G. C., W. E. BURGE and R. KROUSE. The influence of copper on the rate of disintegration of mammalian erythrocytes, 1936, 116: 638.

WICKWIRE, G. C., L. KNEER, H. W. NEILD and W. E. BURGE. A comparison of the rate of disintegration in vitro of nucleated and non-nucleated red blood cells and the effect of copper on this rate, 1934, 109: 111.

WICKWIRE, G. C., O. S. ORTH and W. E. BURGE. Further study of the effect of moving liquid on the electrical stimulation of muscle, 1933, 105: 99.

WICKWIRE, G. C. See Burge and Wickwire, 1935, 113: 22, 23.

See Burge, Wickwire, Neild and Hilpert, 1937, 119: 283. See Burge, Wickwire and Orth, 1933, 104: 480.

See BURGE, WICKWIRE, ORTH, NEILD and ELHARDT, 1936, 116: 19.

See Neild, Elhardt, Wickwire, Orth and Burge, 1936, 116: 113.

See ORTH, WICKWIRE and BURGE, 1933, 105: 77.

See VERDA, WILLIAMS, WICKWIRE and BURGE, 1930, 93: 696.

WIGGERS, C. J. Cardiac massage followed by countershock in revival of mammalian ventricles from fibrillation due to coronary occlusion, 1936, 116: 161.
Characteristic differences in the aortic and ventricular pulse curves with aortic

leaks of different sizes, 1931, 97: 569.

Studies of ventricular fibrillation caused by electric shock. I. The revival of the heart from ventricular fibrillation by successive use of potassium and calcium salts, 1930, 92: 223.

Studies on ventricular fibrillation produced by electric shock. III. The action of antagonistic salts, 1930, 93: 197.

WIGGERS, C. J. and F. S. COTTON. Studies on the coronary circulation: I.
The coronary pressure pulses and their interpretation, 1933, 106: 9.

Studies on the coronary circulation: II. The systolic and diastolic flow through the coronary vessels, 1933, 106: 597.

WIGGERS, C. J. and A. B. MALTBY. Further observations on experimental aortic insufficiency. IV. Hemodynamic factors determining the characteristic changes in aortic and ventricular pressure pulses, 1931, 97: 689.

WIGGERS, C. J. and O. ORIAS. The circulatory changes during hyperthermia produced by short radio waves (radiothermia), 1932, 100: 614.

WIGGERS, C. J. See Cotton, Reynolds and Wiggers, 1933, 105: 25.

See Green, Gregg and Wiggers, 1935, 112: 627.

See Green, Gregg and Wiggers, 1935, 113: 52.

See Gregg, Green and Wiggers, 1935, 112: 362.

See GREGG, GREEN and WIGGERS, 1935, 113: 55.

See GREGG and WIGGERS, 1933, 104: 423.

See Johnson and Wiggers, 1937, 118: 38.

See Maltby and Wiggers, 1932, 100: 604.

See McCrea and Wiggers, 1933, 103: 417.

See TENNANT and WIGGERS, 1935, 112: 351.

See WIGGERS and WIGGERS, 1935, 113: 683.

WIGGERS, H. C. The effect of contraction of the intra-aural muscles on transmission of sound in the middle ear, 1937, 119: 420.

The functions of the intra-aural muscles, 1937, 120: 771.

The sequence of ventricular surface excitation determined by registration of monophasic action potentials, 1937, 118: 333.

Time relations of monophasic action potentials from the ventricle, 1936, 116: 162.

WIGGERS, H. C. and C. J. WIGGERS. The interpretation of monophasic action potentials from the mammalian ventricle indicated by changes following coronary occlusion, 1935, 113: 683.

WILBER, D. T. See GUTTMAN, HORTON and WILBER, 1937, 119: 463.

See GUTTMAN and WILBER, 1936, 115: 194.

See HORTON, WILBER and GUTTMAN, 1937, 119: 338.

WILDER, M. See NYGAARD, WILDER and BERKSON, 1935, 114: 128.

WILDER, R. L. and F. W. SCHLUTZ. The action of atropine and adrenaline on gastric tonus and hypermotility induced by insulin hypoglycemia, 1931, 96: 54.

WILES, I. A. See VAN LIERE, CRISLER and WILES, 1935, 111: 330.

WILEY, F. H. The failure of a supermaintenance diet to increase the total transformation of energy per square meter of body surface, 1931, 97: 570.

WILEY, F. H. and L. H. NEWBURGH. The quantitative study of the mechanism available to the organism for the dissipation of heat. Preliminary report, 1930, 93: 698.

WILHELMJ, C. M., J. L. BOLLMAN and F. C. MANN. A critical study of certain factors influencing the specific dynamic action of intravenously administered amino acids and a comparison with oral administration, 1930, 93: 698.

A study of certain factors concerned in the specific dynamic action of amino acids administered intravenously and a comparison with oral administration, 1931, 98: 1.

WILHELM J, C. M. and W. M. BOOTHBY. The effect of the daily administration of iodine on the calorigenic action of single intravenous injections of thyroxine, 1930, 92: 568. WILHELMJ, C. M. and R. W. FINEGAN. The gastric secretory curve before and after the Mann-Williamson operation and its bearing on the question of duodenal regurgitation, 1937, 119: 420.

WILHELMJ, C. M., R. W. FINEGAN and F. C. HILL. Evidence against a pylorofundic reflex controlling acid secretion, 1937, 119: 421.

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WILHELMJ, C. M., L. C. HENRICH and F. C. HILL. A study of the intragastric factors in the regulation of gastric acidity, 1934, 110: 251.

The influence of duodenal secretions on acid gastric contents, 1935, 111: 293. WILHELMJ, C. M., L. C. HENRICHS, I. NEIGUS and F. C. HILL. The average

composition of human duodenal secretion, 1934, 109: 112.

The chloride concentration of gastric secretion from fundic pouches and from

the intact whole stomach, 1934, 108: 197.

The chloride concentration of gastric secretion from fundic pouches and from the intact whole stomach, 1934, 109: 112.

The origin and significance of neutral chloride in the secretions of the stomach and duodenum, 1935, 112: 15.

The origin and significance of the neutral chloride present in the secretions of the stomach and duodenum, 1935, 113: 137.

WILHELMJ, C. M. and F. C. MANN. The influence of nutrition on the response to certain amino acids. I. The effect of fasting, 1930, 93: 69.

The influence of nutrition on the response to certain amino acids. II. The effect of fasting followed by diets high in carbohydrates, 1930, 93: 258.

WILHELMJ, C. M., H. H. McCARTHY and F. C. HILL. Acid inhibition and the cephalic (psychic) phase of gastric secretion, 1937, 120: 619.

Acid inhibition of the intestinal and intragastric chemical phases of gastric secretion, 1937, 118: 766.

Gastric acidity following partial gastrectomy and vagotomy, 1936, 117: 533.

WILHELMJ, C. M., H. H. McCARTHY, F. T. O'BRIEN and F. C. HILL. The influence of pylorectomy upon the strength of the acid secreted by the fundus, 1937, 118: 505.

WILHELMJ, C. M. and S. L. MOSKOWITZ. Blood uric acid following the intravenous administration of uric acid in normal dogs, 1932, 102: 620.

WILHELMJ, C. M., S. L. MOSKOWITZ and I. NEIGUS. The influence of pregnancy upon the calorigenic action of thyroxine, 1933, 105: 99.

WILHELMJ, C. M. and I. NEIGUS. The calorigenic action of thyroxine in normal dogs and a comparison with the response in human subjects, 1933, 105: 100.

WILHELMJ, C. M., I. NEIGUS and F. C. HILL. A comparison of intragastric and duodenal factors in lowering the acidity of gastric contents, 1934, 107: 490.

Studies on the regulation of gastric acidity. I. The influence of acid on the secretion of hydrochloric acid by fundic pouches and by the whole stomach, 1933, 106: 381.

WILHELMJ, C. M., F. T. O'BRIEN and F. C. HILL. An improved gastric test meal and a study of the secretory curve in whole stomach pouches and in the normal intact stomach, 1936, 115: 5.

The influence of acid on the secretion of hydrochloric acid by the intact normal stomach, 1935, 113: 138.

The influence of the pylorus on the secretion of acid by the fundus, 1936, 116: 163, 685.

The inhibitory influence of the acidity of the gastric contents on the secretion of acid by the stomach, 1936, 115: 429.

The normal gastric secretory curve using a two per cent Liebig's extract test meal, 1936, 116: 163.

WILHELMJ, C. M., F. T. O'BRIEN, H. H. McCARTHY and F. C. HILL. The rôle of the duodenal secretions in the prevention of experimental jejunal ulcer, 1936, 117: 79.

WILHELM J. C. M. See BOOTHBY and WILHELMJ, 1931, 97: 506.

WILKERSON, V. A. and R. A. GORTNER. The chemistry of embryonic growth.
III. A biochemical study of the embryonic growth of the pig with special reference to nitrogenous compounds, 1932, 102: 153.

WILKINS, W. E., J. A. CALHOUN, C. PILCHER and E. M. REGEN. The influence of pituitary growth hormone on the phosphatase activity of bone and kidney, 1935, 112: 477.

WILKINSON, P. D. and V. E. NELSON. Diet in relation in reproduction and lactation. III, 1931, 96: 139.

WILLIAMS, E. See VERDA, WILLIAMS, WICKWIRE and BURGE, 1930, 93: 696.

WILLIAMS, I. See SMITH, McMillin and Williams, 1933, 105: 88.
See SMITH and Williams, 1934, 109: 99.

WILLIAMS, I. R. and E. SMITH. Blood picture, reproduction and general condition during daily exposure to illuminating gas, 1935, 110: 611.

WILLIAMS, M. M. D. See SHEARD, WILLIAMS and HORTON, 1937, 119: 403.

WILLIAMSON, J. F. See Collip, Thomson, Browne, McPhail and Williamson, 1931, 97: 513.

WILLMANN, J. See Culler, Willmann and Mettler, 1937, 119: 292.

WILSON, D. W. See REINHOLD and WILSON, 1934, 107: 378, 388, 400.

WILSON, E. D. and E. B. KRUMBHAAR. The rôle of the spleen in iron metabolism, 1932, 101: 102.

WILSON, H. See Blocksom, Huggins and Wilson, 1935, 113: 12.

WILSON, H. C. The relation between rhythmic variations in blood pressure and rhythmic contractions of the artery of the ear of rabbits and dogs, 1936, 116: 295.

WILSON, I. H. See McClendon, Myrick, Conklin and Wilson, 1931, 97: 82.

WILSON, M. J. See IRVING and WILSON, 1932, 101: 58.

WILSON, T. M. See SHERWOOD, WILSON and BONETA, 1937, 120: 671.

WINDER, C. V. Carotid sinus vasomotor reflexes, 1936, 116: 163.

Experimental consideration of vertebral artery-carotid artery anastomoses, 1933, 106: 28.

On the mechanism of stimulation of carotid gland chemoreceptors, 1937, 118: 389.

Pressoreceptor reflexes from the carotid sinus, 1937, 118: 379.

WINDER, C. V., H. OWEN and R. GESELL. Peripheral and central chemical control of respiration, 1932, 101: 103.

WINDER, C. V. and H. O. WINDER. The seat of action of sulphide on pulmonary ventilation, 1933, 105: 337.

WINDER, C. V., H. O. WINDER and R. GESELL. Cases of periodicity in respiration after carotid sinus denervation and double vagotomy, 1933, 105: 101.

The seat of action of cyanide on pulmonary ventilation, 1933, 105: 101, 311.

WINDER, H. O. See WINDER and WINDER, 1933, 105: 337.
See WINDER, WINDER and GESELL, 1933, 105: 101, 311.

WINDLE, W. F. An explanation of the first reflexes of cat embryos on the basis of development of reflex area, 1934, 109: 113.

Some factors governing initiation of respiration in birds and mammals, 1937, 119: 422.

See Griffin and Windle, 1931, 97: 397.

WINKELSTEIN, L. B. and F. H. SCOTT. The initial effect of vasoconstriction on the concentration of the blood, 1931, 97: 570.

WINKELSTEIN, L. B. See Flesche, Winkelstein and Scott, 1930, 93: 649.

WINKLER, A. The regulation of respiration. The effects of hemorrhage and reinjection, and of the intravenous injection of sodium carbonate and sodium cyanide upon the response of the neuro-muscular mechanism, 1930, 94: 224.

WINSLOW, C.-E. A., L. P. HERRINGTON and A. P. GAGGE. A new method of partitional calorimetry, 1936, 116: 641.

Physiological reactions of the human body to various atmospheric humidities, 1937, 120: 288.

Physiological reactions of the human body to varying environmental temperatures, 1937, 120: 1.

The determination of radiation and convection exchanges by partitional calorimetry, 1936, 116: 669.

WINSLOW, C.-E. A. See HERRINGTON, WINSLOW and GAGGE, 1937, 120: 133.

WINTER, C. A. and F. E. EMERY. Compensatory adrenal hypertrophy in the rat, 1936, 116: 164.

WINTER, C. A. See HARTMAN, WINTER and BROWNELL, 1934, 109: 50.

WINTER, I. C. Utilization of neutral fat by the Eck fistula dog, 1935, 113: 138.

WINTERS, H. See Flexner and Winters, 1932, 101: 697.

WINTERS, M. E. See RIECKER and WINTERS, 1930, 92: 196.

WINTON, F. R. See Shannon and Winton, 1937, 119: 401.
WINTROBE, M. M., H. B. SHUMACKER, JR. and W. J. SCHMIDT. Values for number, size and hemoglobin content of erythrocytes in normal dogs, rabbits

and rats, 1936, 114: 502.
WISLOCKI, G. B. See GOODMAN and WISLOCKI, 1933, 106: 323.

See RICHTER and WISLOCKI, 1930, 95: 481.

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WITT, D. B., L. N. KATZ and I. KOHN. Respiratory failure following denervation of the carotid sinus regions, 1934, 107: 213.

WITTING, V., J. MARKOWITZ and F. C. MANN. The rôle of glycogen in the contraction of the perfused heart of the rabbit, 1930, 94: 35.

WOLF, O. M. See WHIPPLE and WOLF, 1931, 97: 569.

WOLFE, J. M. Reaction of the anterior pituitaries of immature female rats to injection of pregnancy urine extracts, 1934, 110: 159.

The action of a synthetic oestrogenic agent on the anterior pituitary of the castrated female rat, 1936, 115: 665.

WOLFF, H. G. and McK. CATTELL. On the mechanism of hypersensitivity produced by denervation, 1937, 119: 422.

The effect of sympathetic and dorsal root stimulation on the contraction of skeletal muscle, 4934, 109: 113.

WOLFF, H. G., McK. CATTELL and D. A. CLARK. The nature of autonomic effects in the submaxillary gland, 1934, 109: 114.

WOLFF, H. G. See CATTELL, WOLFF and CLARK, 1934, 109: 375. WOMACK, E. B. See Juhn, D'Amour and Womack, 1930, 95: 641.

WOODARD, P. H. See Lands and Woodard, 1935, 113: 84.

See Walters and Woodard, 1933, 104: 364.

WOODBURY, R. A. Blood pressure tracings of small animals, 1936, 116: 164.

The chronaxie of the vagus nerve in dogs given methyl guanidine sulphate and in thyroparathyroidectomized dogs, 1930, 93: 699.

WOODBURY, R. A. and W. F. HAMILTON. Blood pressure studies in small animals, 1937, 119: 663.

WOODBURY, R. A., W. F. HAMILTON, R. TORPIN and A. K. TEMPLES. Recordings of the separate contributions by the uterus and the abdomen to the expulsion of the child with simultaneous records of the maternal blood pressure in the systemic and placental arteries, 1937, 119: 423.

WOODBURY, R. A., W. F. HAMILTON and E. B. WOODS. The application of the hypodermic manometer to the determination of pressure pulses in conjunction with respiration in small animals in the fetus, and in the right and left hearts of the intact dog, 1935, 113: 139.

WOODBURY, R. A. See DRAGSTEDT and WOODBURY, 1934, 107: 584.

See Hamilton and Woodbury, 1937, 119: 325.

See Hamilton, Woodbury and Dow, 1937, 119: 326.

See Hamilton, Woodbury and Harper, 1935, 113: 59.

See Hamilton, Woodbury and Harper, 1936, 116: 69.

See Hamilton, Woodbury and Woods, 1937, 119: 206.

See Robinow, Woodbury and Hamilton, 1937, 119: 392.
WOODS, R. B. See Hamilton, Woodbury and Woods, 1937, 119: 5

WOODS, E. B. See Hamilton, Woodbury and Woods, 1937, 119: 206. See Woodbury, Hamilton and Woods, 1935, 113: 139.

WOOLLEY, E. C. See MARTIN, WOOLLEY and MILLER, 1932, 100: 407.

WOOLSEY, C. N. and P. BARD. Cortical control of placing and hopping reactions in Macaca mulatta, 1936, 116: 165.

Motion picture of placing and hopping reactions in Macaca mulatta and the effects upon them of various cortical ablations, 1936, 116: 165.

WOOLSEY, C. N. and C. McC. BROOKS. Factors influencing micturition volume in the unanesthetized cat, 1937, 119: 423.

WOOLSEY, C. N. See BARD, BROOKS and WOOLSEY, 1934, 109: 5.

See Brooks and Woolsey, 1936, 116: 17.

See Marshall, Woolsey and Bard, 1937, 119: 372.

WORKING, H. See Sahyun, Simmonds and Working, 1934, 108: 708.

WRIGHT, A. W. See GRAHAM and WRIGHT, 1933, 106: 314.

WRIGHT, C. I. The diffusion of carbon dioxide through tissues, 1932, 101: 104. WRIGHT, H. N. See COWAN and WRIGHT, 1932, 100: 40.

See Hemingway, Scott and Wright, 1935, 112: 56.

WRIGHT, L. See GREGERSEN and WRIGHT, 1935, 112: 97.

WRIGHT, S. See RAVDIN, JOHNSTON, RIEGEL, AUSTIN and WRIGHT, 1932, 101: 86.

WRIGHT, S. L., JR. See RAVDIN, JOHNSTON, RIEGEL and WRIGHT, 1932, 100: 317. WYMAN, L. C. and B. R. LUTZ. The action of adrenaline and certain drugs on

the isolated holothurian cloaca, 1930, 93: 699.

WYMAN, L. C. and C. TUM SUDEN. Blood pressure and reactions to histamine in the rat after hypophysectomy and adrenalectomy, 1934, 109: 115.

Differential depression of vasomotor mechanisms by adrenin, 1935, 113: 271. Reversal of the vascular response to a small dose of adrenalin in the rat, 1932,

Reversal of the vascular response to a small dose of adrenalin in the rat, 1932, 101: 105.

Studies on suprarenal insufficiency. VIII. The blood volume of the rat in suprarenal insufficiency, anaphylactic shock and histamine shock, 1930, 94: 579.

Studies on suprarenal insufficiency. IX. Vascular responses to histamine in normal and in suprarenalectomized rats, 1932, 99: 285.

Studies on suprarenal insufficiency. X. Depressor responses to small doses of adrenalin in the rat, induced by loss of the suprarenal medulla, 1932, 101: 382.

Studies on suprarenal insufficiency. XI. The growth of transplanted cortical tissue in the rat, 1932, 101: 662.

WYMAN, L. C. and C. TUM SUDEN.

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The blood volume of the rat in suprarenal insufficiency, anaphylactic shock and histamine shock, 1930, 93: 700.

The distribution of adrenergic vasodilators in the rat, 1936, 116: 165, 182.

The effect of histamine on the blood sugar in suprarenalectomized rats, 1934, 108: 424.

Vascular responses to histamine in suprarenalectomized rats, 1931, 97: 571.

WYMAN, L. C. See LUTZ and WYMAN, 1932, 101: 69.

WYNN, W. See Bachmann, Haldi, Wynn and Ensor, 1937, 119: 262. See Bachmann, Haldi, Wynn and Ensor, 1937, 120: 579. See Haldi, Bachmann, Ensor and Wynn, 1937, 119: 323.

WYSS, O. A. M. An investigation by electrical stimulation, into the function of motor and premotor cortex in the monkey (Macaca mulatta), 1937, 119: 424.

WYSS, O. A. M. and S. OBRADOR. Adequate shape and rate of stimuli in electrical stimulation of the cerebral motor cortex, 1937, 120: 42.

Y

YACORZYNSKI, G. See HALSTEAD, YACORZYNSKI and FEARING, 1937, 120: 350. YANAGISAWA, K. See Olmsted, Margutti and Yanagisawa, 1936, 116: 245.

YATER, W. M. The tachycardia, time factor, survival period and seat of action of thyroxine in the perfused hearts of thyroxinized rabbits, 1931, 98: 338.

See Markowitz and Yater, 1932, 100: 162.

See Markowitz, Yater and Burrows, 1932, 101: 73.

YEAGER, J. F. Studies on the acceleration and inhibition of hemolysis. II. The effect of sugar solutions on the resistance of hypotonic hemolytic systems, 1931, 96: 484.

YOUMANS, J. B. See Wells, Miller and Youmans, 1937, 119: 419. See Wells, Youmans and Miller, 1933, 105: 97.

YOUMANS, W. B. and W. J. MEEK. Reflex and humoral gastro-intestinal inhibition in unanesthetized dogs during rectal stimulation, 1937, 120: 750.

Reflex production of inhibitory sympathin in unanesthetized dogs, 1937, 119: 425.

YOUMANS, W. B. See LALICH, YOUMANS and MEEK, 1937, 120: 554.

YOUNG, F. G. See BEST, HUNTSMAN, RIDOUT and YOUNG, 1935, 113: 11.

YOUNG, J. Z. See BEAR, SCHMITT and YOUNG, 1937, 119: 269. See SCHMITT, BEAR and YOUNG, 1937, 119: 398.

YOUNG, R. H. See CROMER and YOUNG, 1932, 101: 27.

See Cromer, Young and Ivy, 1933, 104: 468.

YOUNG, W. C., H. I. MYERS and E. W. DEMPSEY. Some data from a correlated anatomical, physiological and behavioristic study of the reproductive cycle in the female guinea pig, 1933, 105: 393.

YOUNG, W. C. See Dempsey, Hertz and Young, 1936, 116: 201. See Dempsey, Myers, Young and Jennison, 1934, 109: 307.

YOUNGSTROM, K. Comparative physiological development of some Anura, 1937, 119: 426.

The action of hyoscine hydrobromide on developing Anura, 1937, 119: 425.

YUDKIN, A. M., M. KRISS and A. H. SMITH. Vitamin A potency of retinal tissue, 1931, 97: 611.

YUDKIN, A. M. See GILMAN and YUDKIN, 1933, 104: 235.

21

ZV

Z

Z

2

- ZARROW, M. X. See POMERAT and ZARROW, 1936, 116: 122.
- ZECKWER, I. T. Some atypical responses of rabbits to insulin, 1933, 106: 273.
 - The adrenals and gonads of rats, following thyroidectomy, considered in relation to pituitary histology, 1936, 116: 166.
 - The adrenals of rats following combined thyroidectomy and gonadectomy, considered in relation to pituitary histology, 1937, 119: 426.
 - Thyrotropic effect of pituitaries from cretin rats, 1936, 117: 518.
- ZEISS, F. R. See Weil, Zeiss and Cleveland, 1931, 98: 363.
- ZELLER, J. W. See FREEMAN and ZELLER, 1937, 119: 311.
 - See FREEMAN and ZELLER, 1937, 120: 475.
- ZELLER, W. See Burget and Zeller, 1935, 113: 23.
- ZELLER, W. E. See BURGET and ZELLER, 1936, 116: 21.
- ZETLIN, A. See Banus and Zetlin, 1937, 119: 264.
 See Banus, Zetlin and Gersh, 1936, 116: 4.
- ZETTELMAN, H. J. See QUIGLEY, ZETTELMAN and IVY, 1933, 105: 81.
- See Quigley, Zettelman and Ivy, 1934, 108: 643.

 ZIMMERMAN, H. M., G. R. COWGILL, W. W. BUNNELL and M. DANN. Studies on the nervous system in deficiency diseases: experimental black tongue,
- 1934, 109: 440.
 ZIMMERMAN, H. M., J. C. FOX, JR. and G. R. COWGILL. Vitamin G (B₂) deficiency in dogs: changes in the central nervous system, and motion pictures, 1934, 109: 115.
- ZIMMERMAN, H. M. See Cowgill, Zimmerman and Burack, 1934, 109: 24.
- ZIMMERMAN, L. M. See Soskin, Mirsky, Zimmerman and Crohn, 1935, 113:
 - See Soskin, Mirsky, Zimmerman and Crohn, 1935, 114: 110.
 - See Soskin, Mirsky, Zimmerman and Heller, 1936, 114: 648.
 - See Soskin, Mirsky, Zimmerman and Heller, 1936, 116: 148.
- ZIRKLE, R. E. Modification of x-ray injury by carbon dioxide and ammonia, 1934, 109: 115.
- ZIRKLE, R. E. and C. J. GARRAHAN. Effects of roentgen rays upon the osmotic behavior of the erythrocyte, 1936, 116: 167.
- ZORN, C. See Muntwyler, Myers, Danielson and Zorn, 1935, 113: 186.
- ZORN, C. M. and A. J. DALTON. A chemical study of the blood to the developing chick, 1937, 119: 627.
- ZSCHIESCHE, L. J. See Wearn, Ernstene, Bromer, Barr, German and Zschiesche, 1934, 109: 236.
- ZUCKER, T. F. and B. N. BERG. The course of blood sugar after intravenous insulin in normal dogs and cats, 1937, 119: 531.
 - The rôle of the adrenal gland in blood sugar recovery after insulin hypoglycemia, 1937, 119: 539.
- ZUCKER, T. F., P. G. NEWBURGER and B. N. BERG. Continuous pancreatic secretion, 1932, 102: 193.
 - The amylase of serum in relation to functional states of the pancreas, 1932, 102: 209.
- ZUCKER, T. F. See BERG and ZUCKER, 1937, 120: 435.
- ZUCKERMAN, S. The Aschheim-Zondek diagnosis of pregnancy in the chimpanzee, 1935. 110: 597.
- ZUCKERMAN, S. and T. C. RUCH. Spinal roots and tracts in the regulation of skin temperature, 1934, 109: 116.

ZUCKERMAN, S. See van Wagenen and Zuckerman, 1933, 106: 416.

ZWEIFACH, B. W. and C. E. KOSSMANN. Micromanipulation of small blood vessels in the mouse, 1937, 120: 23.

ZWEMER, R. L. Some clinical effects accompanying changes in blood potassium experimentally produced, 1937, 119: 427.

ZWEMER, R. L. and J. SCUDDER. Potassium changes in experimental shock, 1937, 119: 427.

ZWEMER, R. L. and R. C. SULLIVAN. The adrenal cortex and blood sugar mobilization, 1934, 109: 117.

ZWEMER, R. L. See Agate and Zwemer, 1935, 111: 1. See Newton, Zwemer and Cannon, 1931, 96: 377.

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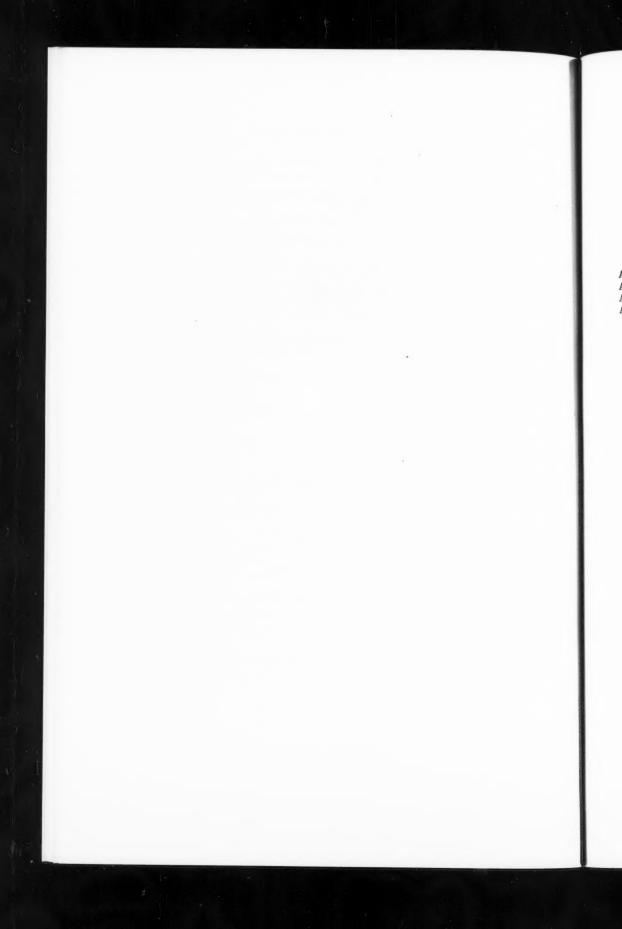
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g d ZWIKSTER, G. H. and T. E. BOYD. Reversible loss of the all or none response in cold blooded hearts treated with excess of potassium, 1935, 113: 560.

ZWIKSTRA, G. H., JR. Graded responses to graded stimuli in the turtle heart, 1935, 113: 139.

ZWIKSTRA, G. H., JR. and T. E. BOYD. Reversible loss of the all or none response in turtle hearts treated with excess of potassium, 1935, 113: 139.



Alphabetical List of Subjects

A

Abdominal distention, relation of blood pressure to, 1933, 104: 120.

Abdominal viscera, thermo-electric temperature studies of, 1932, 101: 72.

Absinth and hypotonic solutions, variations in susceptibility of cats to, 1931, 97: 549.

Absorption, digestive, pancreatic secretion and, 1936, 116: 210.

from subarachnoid space, 1934, 108: 458.

in gut, circulatory rate and, 1934, 108: 469.

intestinal, anoxemia and, 1936, 117: 309.

intestinal, autonomic nervous activity and, 1933, 106: 283.

intestinal, K-Ca antagonism in, 1933, 106: 318.

intestinal, lyotropic series and, 1934, 110: 490.

lymphatic, from serous cavities, 1937, 119: 776.

of cerebrospinal fluid, 1935, 114: 40.

of chloride in amphibian renal tubule, 1937, 118: 121.

of cystine, methionine and cysteic acid from intestinal loops, 1936, 115: 188.

of fluid from intestine, 1932, 101: 434.

of glucose and sucrose, relative rates of, 1936, 117: 257.

of glucose, influence of acetylcholin on, 1933, 105: 684.

of insulin from gastro-intestinal tract, hexylresorcinol and, 1937, 120: 744.

of insulin from intestinal loops, 1937, 120: 733.

of water by skeletal muscle cells, 1933, 106: 115.

of water from small intestine in anoxemia, 1936, 115: 239.

re-, glucose, in amphibian renal tubule, 1937, 118: 130.

subcutaneous, 1932, 102: 365.

subcutaneous, in adrenalectomized rats, 1934, 110: 153.

Absorption rates, relative, of dextrose and levulose, 1932, 101: 565.

Absorption spectra of vital dyes in plasma, 1937, 120: 494.

Absorption spectrum of hemolyzed blood in rickets, 1931, 97: 243.

Acacia in restoring body fluid, 1930, 95: 561.

Accelerator effects, vagal, on cardiac rate, 1934, 110: 42.

Accelerator fibers in vagus of dog, 1932, 101: 274.

Acetone, blood, after administration of hypophysis, 1936, 115: 424.

in expired air, 1936, 116: 5.

Acetyl- β -methylcholine and ethyl ether of β -methylcholine, action of, 1933, 105: 90.

Acetylcholine, action of, in arrest of experimentally induced convulsions in cat, 1936. 116: 29.

action of, on cultures of chick heart, 1937, 119: 314.

action of, on intestine, 1933, 104: 433.

and ventricular fibrillation, 1935, 110: 675.

blood sugar and amino acids, 1936, 117: 542.

effect of, on blood flow, 1936, 114: 695.

effects of magnesium on production of, by motor nerve stimulation, 1937, 119: 270. effects of, on frog's ventricle, 1937, 119: 314.

electrocardiograms of effects of, after division of vagi, 1936, 116: 30.

influence of, on absorption of glucose, 1933, 105: 684.

inotropic and chronotropic effects of, on chelonian heart, 1937, 119: 315.

oxidation of, by tissues, 1933, 104: 438.

pilocarpine, atropine and, blood sugar after, 1936, 114: 551.

reaction of dog's stomach to, 1936, 116: 112.

response of spleen to, 1936, 117: 701.

vasomotor effect of, on stomach, 1936, 116: 330.

Acetylcholine action on turtle heart, 1937, 119: 314.

Acetylcholine contracture of denervated muscle, 1937, 119: 353.

of denervated muscle, 1937, 120: 757.

Acetylcholine-like substance, formation of, by excised tissues, 1937, 119: 306.

Achilles and crossed flexion reflex in rat, 1931, 97: 282.

Acid-base changes due to dinitrophenol, 1935, 113: 186.

in exercise, chart for, 1931, 96: 538.

in serum of exercised dogs, 1931, 96: 529.

Acid-base composition of hepatic bile, 1934, 107: 378, 388, 400.

Acid-base effects upon respiration and muscles, 1931, 98: 60.

Acid-base elimination, respiratory metabolism and, in pregnancy, 1931, 96: 101.

Acid-base equilibrium and reflex time, 1930, 91: 365.

function of liver in control, 1932, 99: 365.

of blood, rôle of tissue in, 1929, 91: 150.

Acid inhibition of gastric secretion, 1937, 118: 766.
of gastric secretion, psychic factor in, 1937, 120: 619.

Acid production in ischemia and congestion of heart, 1937, 118: 217.

Acid secretion of fundus after pylorectomy, 1937, 118: 505.

of stomach, influence of pylorus on, 1936, 116: 685.

Acidification of urine in amphibian renal tubule, 1937, 118: 144.

Acidity of gastric contents and secretion of acid, 1936, 115: 429.

Acidosis: acid intoxication or acarbia, 1934, 107: 37.

as a factor of fatigue in dogs, 1935, 113: 595.

Acids, organic, anticoagulative action of, 1937, 119: 80.

Acoustic pathways, distribution of, in medial geniculate bodies, 1937, 119: 257.

Acoustic sensitivity after x-radiation of head, 1937, 119: 13.

Acoustic stimuli, response of kidney to, 1930, 91: 499.

response of spleen to, 1930, 91: 505.

Acoustic value of components of the auditory system, 1936, 116: 252.

Action and excitability in mammalian A fibers, 1936, 117: 113.

Action currents, cause of, 1934, 109: 8.

monophasic, obtained by direct and indirect leads, 1933, 105: 59.

Action potential in somatic nerve fibers, 1930, 92: 43.

of ventricular muscle, effects of cold and of veratrin on, 1930, 92: 165.

Action-potential wave in nerve, 1931, 97: 154.

Action potentials, central and peripheral, 1935, 113: 49.

delayed, in nerve, 1930, 93: 337.

from single motor units, 1934, 108: 629.

from single muscle fibers, 1932, 101: 678.

in cerebral cortex, anesthetics and, 1936, 116: 577.

in frog's gastroenemius muscle, 1935, 111: 641.

of auditory nerve, 1935, 113: 476.

Acti

Act

Ad

Ad

.

of cerebral cortex and spinal cord before and after cortical stimulation, 1936, 116: 99.

of myelinated axons, manifestations of segments in, 1934, 109: 32.

Activation of blood coagulation, 1936, 117: 587.

of gastric secretion by vagal stimulation, 1931, 96: 363.

Activity, effect of, on irritability of nerve, 1930, 92: 656.

effects on, of different amounts of protein in diet, 1931, 96: 557.

in gonadectomized rats fed pregnancy urine, 1934, 110: 499.

of excised uterine horns of rat, 1931, 99: 227.

of gonadectomized rats, amniotin and, 1934, 108: 136.

of male rat, influence of female rat on, 1935, 113: 37.

physical, in rats, blood changes and, 1935, 112: 695.

voluntary, after destruction of adrenal medulla, 1936, 114: 657.

Adolescence, pre-, exercise and respiration in, 1936, 117: 577.

Adrenal and carbohydrate metabolism, 1937, 118: 15.

and thyroid, relation of, to muscle metabolism, 1933, 105: 110.

attempt to auto-transplant, 1929, 91: 275.

(cortico-) extract and precocious sexual maturity, 1931, 99: 33.

cortico-, extract, carbohydrate metabolism and, 1932, 100: 693.

(cortico-) extract, oral administration of, 1931, 99: 44.

(cortico-) extracts, action of, on adrenalectomized animals, 1931, 99: 15.

cortico-, insufficiency, 1937, 118: 620.

effect of calcium and potassium ions on. 1934, 108: 46.

insufficiency, 1929, 91: 254.

studies on, 1933, 103: 686.

See Suprarenal.

Adrenal cortex, 1931, 96: 153, 164, 180.

1931, 98: 144.

1933, 105: 46.

and blood sugar mobilization, 1934, 109: 117.

and carbohydrate formation, 1936, 114: 297.

and distribution of body water, 1936, 116: 438.

and endogenous carbohydrate formation, 1935, 113: 39.

and renal function, 1933, 104: 399.

and resistance to cold in hypophysectomized rats, 1933, 104: 489.

attempted auto-transplantation of, 1931, 97: 392.

effect of extracts of, on reproductive system, 1934, 107: 480.

effect of, on growth and sexual activities, 1937, 118: 677.

function of, 1934, 107: 190.

hormone of, 1930, 93: 655.

hormone of, 1930, 95: 670.

hormone of, 1932, 101: 46.

hormone of, 1933, 105: 41.

relation of hypophysis and, to blood sugar, 1937, 120: 649.

relation of, to reproduction and lactation, 1936, 115: 627.

relation of, to vitamin C, 1936, 117: 553.

vital hormone of, 1931, 97: 530.

Adrenal cortex extract, effects of, on reproductive system, 1933, 105: 42.

Adrenal cortex function, carbohydrate versus circulatory theories of, 1933, 105: 11.

Adrenal cortical extracts, 1936, 116: 42.

bioassay of, 1936, 117: 678.

Adrenal cortical hormone, 1935, 113: 55.

and adrenal insufficiency, 1933, 105: 93.

and respiratory metabolism, 1932, 99: 710.

in interrenal body, 1934, 108: 237.

vitamin C and, 1936, 116: 187.

Adrenal extract, cortical, effect of, in normal animals, 1932, 101: 13.

cortical, effect of, on blood cellular elements, 1932, 101: 23.

cortical, in-vitro effects of, 1932, 101: 94.

cortico-, and blood cells, 1932, 102: 699.

cortico-, and energy output, 1932, 102: 707.

cortico-, and glycolysis, 1932, 102: 693.

purified, action of, 1937, 120: 213.

Adrenal extracts, purification of, and isolation of activator of male sex hormones, 1937, 119: 302.

Adrenal gland, cortical hormone of, 1931, 97: 566.

effects of x-rays on, 1930, 93: 219.

insulin and, 1937, 119; 539.

Adrenal glands, apparent prepotent function of, 1932, 100: 701.

autolyzing, epinephrin-like substance in, 1936, 115: 662.

diet and adrenin content of, 1932, 100: 342.

epinephrine in tissue cultures of, 1935, 113: 529.

life-maintaining and gonadotropic extracts of, 1935, 113: 38.

ovarian cycle and, 1934, 107: 207.

phenolic content of, 1930, 93: 686.

principal function of, 1932, 101: 14.

relation of, to experimental pancreatic diabetes, 1936, 116: 131.

Adrenal hypertrophy, compensatory, in rat, 1936, 116: 164.

Adrenal insufficiency, alarm reaction theory of, 1937, 119: 400.

and fluid distribution, 1937, 119: 684.

and secondary shock, 1935, 112: 581.

blood changes following, 1934, 108: 428.

blood changes in, 1937, 118: 594.

experimental, cation permeability of erythrocytes in, and in normal animals after plasma sodium depletion, 1936, 116: 73.

experimental chronic, 1933, 105: 84.

experimental sodium loss and, 1934, 108: 662.

glucose distribution between blood plasma and cells in, 1936, 116: 15.

hypophysis in, 1935, 112: 310.

in rat, some factors in, 1935, 111: 1.

metabolism in, 1934, 108: 535.

renal function and water balance after cortical extract treatment, 1933, 105: 88.

revival of cats prostrate from, by extract of cortex, 1931, 96: 180.

serum sodium and chloride levels in, 1936, 116: 15.

water shift in, 1934, 109: 50.

Adrenal interrelationship, thyroid-, metabolic aspects of, 1936, 115: 415.

Ardenal medulla and resistance to histamine shock, 1937, 118: 57.

voluntary activity after destruction of, 1936, 114: 657.

work capacity after destruction of, 1936, 114: 653.

Adrenal medullectomy and emotional hyperglycemia, 1937, 120: 420.

Adrenal secretion, effect of dehydration on, 1933, 104: 628.

in man, 1934, 107: 529.

not continuous, 1931, 98: 447.

Adrenal X zone andromimetic, 1937, 119: 339.

Adres Adres Adres

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Adı Adı

Ad Ad

Adrenal-gonad relationships, 1937, 120: 36.

Adrenal portal anastomosis, blood sugar after, 1934, 108: 42.

Adrenalectomized animals, carbohydrate metabolism in, 1936, 116: 274.

effect of trauma in, 1935, 111: 426.

seasonal variations in survival of, 1930, 93: 637.

Adrenalectomized cats, effect of a lipid fraction on life-span of, 1931, 96: 153. extract of adrenal cortex which maintains life of, 1931, 96: 164.

Adrenalectomized dog, blood sugar of, 1936, 117: 13.

effect of hemorrhage on, 1934, 107: 259.

water intoxication in, 1937, 119: 557.

Adrenalectomized dogs, 1937, 119: 277.

and cats, survival period of, 1929, 91: 254.

blood volume of, 1934, 109: 488.

diet in maintenance of, 1937, 118: 87.

fluid intake in, 1934, 108: 144.

sodium chloride in, 1934, 108: 159.

Adrenalectomized nephrectomized rat, survival of, 1936, 117: 200.

Adrenalectomized opossum, NaCl balance in, 1937, 118: 21.

saline and glucose effects on survival of, 1936, 116: 144.

salt balance and carbohydrate metabolism in, 1935, 113: 122.

Adrenalectomized rat, absorption of water, chlorides and glucose by, 1935, 113: 121. subcutaneous absorption in, 1934, 110: 153.

Adrenalectomized rats, blood sugar of, 1930, 93: 152.

coagulation time of blood of, 1931, 96: 305.

effect of diet on survival of, 1937, 118: 798.

effect of histamine and blood sugar in, 1934, 108: 424.

increased salt appetite in, 1936, 115: 155.

lactation in, 1936, 115: 588.

metabolism of, 1937, 119: 589.

salt-treated, survival of, 1935, 111: 321.

Adrenalectomized-deparcreatized cats, 1936, 116: 97.

Adrenalectomy and cortico-adrenal extract, effects of, on reproduction, 1933, 105: 12.

and glucose administration, salt loss after, 1935, 113: 122.

and liver fat, 1937, 120: 361.

and liver fat in ketosis, 1937, 118: 525.

and metabolism of excised tissue, 1934, 110: 348.

and nephrectomy, serum K and Na after, 1937, 120: 83.

body weight and oestrus after, 1934, 108: 438.

capacity of muscle for work after, 1935, 112: 65.

changes in rat incisor following, 1936, 115: 334.

cortin and blood constituents after, 1937, 118: 302.

cortin and work capacity after, 1936, 116: 622.

double, and oestrous cycle, 1930, 95: 292.

effect of, on chloride and water balance, 1934, 109: 97.

effect of, on fetal metabolism, 1935, 113: 450.

effect of, on metabolic response of rat to cold, 1937, 119: 339.

effect of, on ovulation and luteinization in anestrous cats, 1937, 119: 312.

effect of, on reproduction and lactation, 1935, 113: 17.

effect of, on response of rat to ketogenic principle of anterior pituitary, 1936, 116: 55

effects of, on diabetes, 1934, 109: 35.

effects of saline on estrus and survival after, 1935, 113: 17.

in cats, 1932, 101: 13.

influence of, on ketosis, 1937, 118: 184.

in mammals, 1933, 103: 686.

in mammalian types, 1931, 99: 9.

in mice, 1937, 120: 36.

in opossum and marmot, changes after, 1936, 115: 618.

in the rat, 1933, 103: 494.

oestrus and lifespan after, 1937, 119: 675.

partial, and work capacity of rats, 1935, 113: 200.

salt and water metabolism after, 1935, 111: 305.

sodium and chloride depletion after, 1936, 116: 430.

survival after, 1930, 94: 686.

total, effect of, on experimental pancreatic diabetes, 1936, 116: 98.

Adrenalin, action of, on isolated holothurian cloaca, 1930, 93: 699.

and the metabolism of exercise, 1931, 97: 375.

depletion of muscle sugar by, 1930, 95: 403.

depressor responses of, in rat, 1932, 101: 282.

effect of, on auricle of elasmobranch fishes, 1930, 93: 669.

effect of, on auricle of elasmobranch fishes, 1930, 94: 135.

effect of, on nitrogen metabolism, 1931, 96: 28.

effect of, on plasma volume of normal and sympathectomized dogs, 1936, 116:66.

effect of, on sensitized blood vessels in man, 1934, 107: 529.

effect of, on ventricular fibrillation in cat, 1936, 115: 507.

effects of, on blood fat, 1931, 97: 648.

influence of, on resting heat production of isolated skeletal muscle, 1933, 105: 11. quantitation of sympathin in terms of, 1931, 97: 365.

Adrenalin. See Epinephrine.

Adrenalin activity and potassium of tissues, 1935, 114: 207.

Adrenalin conjugates, ammonolyzed, and pressor action in dogs, 1937, 119: 391.

Adrenalin glycemia, 1930, 93: 646.

Adrenalin injection in moderate work, effects of, 1935, 111: 9.

Adrenalin instillation, effect of, on eye, 1933, 103: 153.

Adrenals and gonads of rats, after thyroidectomy, in relation to pituitary histology, 1936, 116: 166.

effect of removal of, on body temperature, 1932, 101: 74.

hair growth and, 1937, 120: 427.

interrelationship between gonads and, 1933, 103: 511.

of rats after thyroidectomy and gonadectomy, with pituitary histology, 1937, 119: 426.

Adrenergic and cholinergic substances, liberation of, in submaxillary gland, 1934, 109: 375.

Adrenergic vasodilators in the rat, 1936, 116: 165, 182.

Adrenin and sympathin, liberation of induced by stimulation of hypothalamus, 1937, 119: 615.

cocaine sensitization of smooth muscle to, 1931, 98: 186.

depression of vasomotor mechanisms by, 1935, 113: 271.

effects of sympathin and, on iris, 1935, 113: 251.

internal and external stimulation of the iris by, 1932, 101: 90.

mode of action of, 1932, 101: 89, 149.

nature of response of smooth muscle to, 1933, 103: 681.

quantitation of, by biological methods, 1932, 101: 149.

stimulation of iris by, 1932, 102: 71.

Adrenin content of adrenal glands, diet and, 1932, 100: 342.

Adren

S

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Age,

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I

Adrenine, interaction of, and sympathetic impulses, 1935, 112: 690.

sensitivity of nictitating membrane to, 1937, 120: 466.

sensitivity of smooth muscle to, after denervation, 1935, 111: 611.

sympathin and, comparative study of, 1935, 112: 268.

Adrenine. See Epinephrine.

Adreno-pituitary interrelationships and renal secretion in opossum, 1936, 116: 143.

Afferent function in C fibers, 1935, 114: 69.

Afferent impulses, cessation of, in stretch reflex, 1934, 109: 123.

visceral, pathway for, 1931, 97: 249.

Afferents, specific reflex, 1935, 112: 231.

After-images and changes in respiratory gases, 1935, 112: 620.

After-potentials and recovery curve of C fibers, 1935, 113: 108.

Age, advancing, oxygen consumption with, 1937, 119: 28.

and reproduction, relation of hemoglobin to, 1931, 98: 311.

and tissue respiration, 1936, 114: 255.

capillary permeability and lymph flow in, 1937, 118: 354.

influence of, on insufficient intake of inorganic salt mixture, 1936, 116:55.

Air, inspired, salivary secretion and oxygen tension of, 1930, 91: 399. inspired, visual discrimination with changes in, 1936, 115: 679.

Air movement as stimulus to skin, 1936, 114: 269.

Albuminuria following exercise, 1932, 101: 53, 357, 365.

Alcohol, caffeine and nicotine mixtures, synergistic and antagonistic effects of, 1934, 109: 67.

effect of, on cutaneous tactile and pain sensitivity, 1934, 109: 77.

ethyl, effect of, on growth of chicks, 1930, 92: 450.

hydroxy-benzyl, action of some derivatives of, 1932, 101: 70.

of body, so-called normal, 1935, 112: 374.

Alcohol block in nerve fibres, 1931, 97: 597.

Alcohol injections, effect of, on growth, 1932, 100: 74.

Alcohol poisoning, experimental, treatment of, 1933, 105: 19.

Alcohols, aliphatic, anesthetic properties of, 1933, 105: 68.

aliphatic, toxicity of, 1932, 101: 71.

Alimentary absorption of thyroglobulin, 1933, 103: 570.

Alimentary canal of fowl, movements of, 1930, 93: 105.

Alimentary motor conditioning and pitch discrimination, 1935, 112: 323.

Alimentary tract, electromyographic studies of, 1932, 102: 683.

Alkali, antagonism of, to curare, 1930, 91: 563.

Alkali content, chloride and, of duodenal secretions and gastric acidity and emptying time, 1936, 116: 337.

Alkali iodides, action of, 1934, 109: 450.

Allantoin and uric acid after removal of liver, 1933, 104: 242.

All-or-none law in crustacean nerve, 1934, 107: 447.

jurisdiction of, 1930, 93: 680.

All-or-none principle, 1930, 93: 1, 9. invalidity of, 1930, 93: 650.

Altitude, high, lactic acid in rest and work at, 1936, 116: 367.

high, oxygen dissociation curve of blood at, 1936, 115: 292.

high, studies at, 1932, 100: 487.

Altitudes, high, blood sugar and glucose tolerance at, 1936, 116: 309.

high, gas equilibria in lungs at, 1936, 115: 530.

Aluminum salts, iron and, effects of feeding, 1935, 111: 118.

Alveolar CO2, a physiological variant, 1937, 119: 370.

equilibrium of, 1930, 93: 422.

hunger and variations in, 1937, 119: 7.

posture in alterations of, 1937, 118: 435.

American Physiological Society, proceedings, 1930, 93: 628.

proceedings, 1931, 97: 500.

proceedings, 1932, 101: 1.

proceedings, 1933, 105: 1.

proceedings, 1934, 109: 1.

proceedings, 1935, 113: 1.

proceedings, 1936, **116**: 1. proceedings, 1937, **119**: 257.

Amino acids as factors in growth and differentiation, 1931, 97: 527.

effect of acetylcholine on blood sugar and, 1936, 117: 542.

in-development, 1934, 109: 55.

in development, 1935, 113: 57, 58, 67.

influence exerted on differentiation of, by iodine, 1933, 105: 54.

influence of nutrition on response to, 1930, 93: 69, 258.

intravenous, and gastric motility, 1935, 112: 438.

intravenously and orally administered, 1930, 93: 698.

proteins and, creatine from, 1935, 113: 647.

specific dynamic action of, 1931, 98: 1.

Ammonia, effect of liver removal on formation of, 1930, 92: 92.

Ammonia excretion by perfused kidney, 1937, 120: 365.

Ammonium chloride, methylene blue and strychnine, and respiration, 1930, 94: 427.

Amniotin and activity of gonadectomized rats, 1934, 108: 136.

and basal metabolism after thyroidectomy, 1937, 120: 671.

effect of, on basal metabolism, 1933, 105: 241.

Amoebae, bioelectrical measurements on, 1931, 98: 475.

Amphibian kidney, excretion of phosphate by, 1937, 118: 167.

Amphibian renal tubule, acidification of urine in, 1937, 118: 144.

chloride absorption in, 1937, 118: 121.

fluid from known regions of, 1937, 118: 111.

glucose reabsorption in, 1937, 118: 130.

Amylase, serum, in relation to pancreatic activity, 1932, 102: 209.

Amytal, action of, on vagus, 1930, 91: 461.

blood concentration under, 1933, 106: 35.

Anaerobic conditions, inhibition of heart under, 1935, 111: 649.

Anaerobic glycolysis in tissues from polyneuritic chicks, 1936, 117: 151.

Anaerobic oxygen debt of frog nerve, 1930, 92: 349.

debt of muscle, 1930, 93: 124.

Analgesics, comparison of cobra venom and morphine as, 1936, 116: 101.

Anaphylactic response of non-gravid uterus of unanesthetized rabbit, 1931, 98: 237.

Anaphylaxis, 1932, 102: 512, 520.

extrahepatic biliary tract during, 1935, 112: 430.

histamine and, reactions of rat uterus to, 1934, 108: 416.

Andenotropic hypophyseal extract and adrenal cortex, 1937, 118: 452.

Androgenic substances, effects of, in hypophysectomized rats, 1937, 119: 121.

Androgens, effect of, on castrate white rats, 1937, 119: 355.

efficacy of, determined by rat assay method, 1937, 119: 354.

Androstendion, relation of, to protein metabolism, 1936, 117: 642.

effec expe from hemo

27.

Anemia after gastrectomy in rat, 1933, 105: 69.
caused by black tongue-producing diet, 1935, 114: 25.

cerebral, electrical activity of motor cortex during, 1934, 109: 99.

due to feeding human, cow and goat milk, 1935, 113: 642. effect of iron and irradiation on, 1934, 108: 91.

experimental, serum iron in, 1930, 92: 196.

from goat's milk, 1935, 113: 279.

hemoglobin producing factors in liver in, 1934, 108: 270.

hemorrhagic, erythrocyte changes in, 1931, 98: 636. influence of beef and liver diet on, 1930, 91: 429.

in jaundice, 1930, 91: 409.

nutritional, and resistance to cold, 1937, 118: 549.

nutritional, of pregnancy, 1933, 106: 449.

nutritional, of rat, spleen and blood in, 1935, 111: 578.

nutritional, utilization of colloidal iron in, 1937, 118: 211.

nutritional, value of oysters in, 1931, 97: 569.

of pigeons, inorganic iron in, 1930, 93: 156.

of pregnancy, hydremia as a factor in, 1936, 115: 69.

of pregnancy in the rat, 1934, 107: 616. pernicious, etiology of, 1932, 101: 59.

pernicious, rôle of upper gastro-intestinal tract in, 1937, 119: 262. pituitrin, 1937, 118: 241.

severe, blood regeneration in, 1930, **92**: 362, 378, 388, 400, 408. severe, blood regeneration in, 1935, **113**: 467.

Anemia development in young rats, 1932, 101: 503.

Anemic, anti-, treatment in polycythemia, 1935, 114: 194.

Anemic dogs, bile pigment and hemoglobin interrelation in, 1931, 96: 463. control basal diets in, 1936, 115: 651.

Anesthesia, blood concentration and, 1933, 106: 35. effects of, on dogs, 1937, 119: 306.

Anesthetic level for respiratory reflexes, 1936, 115: 579.

Anesthetics, effect of, on action potentials in cerebral cortex, 1936, 116: 577.

Anesthetized frogs, water balance in, 1934, 108: 550.

Anhidrosis, after interruption of various sympathetic pathways in man, 1937, 119:

Anhydremia and vitamin B-deficiency,—gastric motility, 1930, 92: 83. anorexia, gastric motility and, 1931, 96: 132.

Anoestrum, induction of ovarian activity during, 1933, 104: 165.

Anorexia due to lack of vitamin B, 1931, 98: 589.

due to lack of vitamin B complex, 1931, 96: 372. gastric motility and anhydremia, 1931, 96: 132.

in vitamin B deficiency, water intake and, 1933 104: 484.

Anoxemia, action of vagus on heart during, 1933, 105: 469.

and drug susceptibility, 1933, 105: 26.

and intestinal absorption of water, 1936, 115: 239.

and intestinal absorption, 1936, 117: 309.

asphyxia and acidosis, 1933, 105: 49.

cardiovascular reactions to, 1930, 93: 19.

effect of, on action potential of nerve fibers, 1931, 96: 613.

effect of, on digestive movements of stomach, 1931, 97: 516.

effect of, on emptying time of stomach, 1933, 105: 96.

effect of, on gastric emptying time, 1936, 116: 156.

effect of, on gastro-intestinal motility, 1932, 102: 629.

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effect of, on homeostasis, 1933, 104: 184.

effect of, on hunger contractions, 1930, 93: 267.

effect of, on impermeability of stomach to water, 1936, 116: 144.

effect of, on knee jerk, 1932, 102: 305.

effect of, on pyloric sphineter, 1935, 111: 330.

effect of, on water absorption from small intestine, 1935, 113: 134.

in dogs, carotid sinus and, 1933, 105: 487.

in man, gastric activity and, 1935, 112: 451.

influence of, on cardiac volume, 1930, 94: 641.

metabolic processes in brain and legs in, 1931, 98: 373.

methylene blue and, 1935, 110: 580.

prolonged, after carotid sinus denervation, 1934, 109: 709.

prolonged, effect of, on heart and spleen, 1936, 116: 290.

relationship of, to acidity of brain tissue, 1932, 101:66.

respiratory adaptation to, 1934, 109: 626.

two stages in, 1932, 101: 54.

Anoxia, in dogs, urine formation under, 1937, 119: 127.

Anterior lobe and menstruation, 1930, 95: 662.

Anticoagulant in hemophilic blood, 1931, 98: 131.

Antidromic impulse and response of motoneurone, 1935, 112: 595.

Antidromic impulses in investigation of central inhibitory mechanism, 1933, 103: 131.

Antiketogenic action of insulin, 1936, 116: 322.

Antithrombin in peptone shock, 1936, 116: 535.

Antithyroglobulin, effect of, on action of thy oglobulin, 1930, 93: 175.

Antuitrin, effect of, on weight of offspring of rats, 1934, 108: 593.

S and augmentation of ovarian weight, 1937, 118: 316. Anura, comparative physiological development of, 1937, 119: 426.

Anuran larvae, action of hyoscine hydrobromide on, 1937, 119: 425.

Anuria in frog under CO2, 1934, 109: 1.

Aorta and pulmonary artery, nerve plexus between, 1933, 104: 253.

effect of short radio waves and heat on elasticity of, 1933, 104: 347.

Aortic and ventricular pressure curves, 1935, 112: 130.

Aortic and ventricular pulse curves, characteristic differences in, 1931, 97: 569.

Aortic insufficiency and arterio-venous fistula, aortic stenosis, -coronary blood flow in. 1936, 115: 94.

chronic experimental, effect of, on circulation, 1933, 105: 43. experimental, 1931, 97: 689.

Aortic pulse wave, form of post-incisural portion of, 1934, 109: 197.

Aortic regurgitation, chronic, circulatory changes in, 1934, 107: 414.

Aortic stenosis, aortic insufficiency and arterio-venous fistula, coronary blood flow in, 1936, 115: 94.

Apnea, chemical and nervous factors in, 1932, 102: 167.

from inflation of lungs, vascular changes during, 1937, 119: 341.

Apparatus for teaching and research, 1935, 113: 107.

Appetite, salt, in adrenalectomized rats, 1936, 115: 155.

Aqueous humor, cerebrospinal fluid and, reformation of, 1933, 103: 351. osmotic relation of blood and, 1933, 104: 235.

Arhythmia, experimentally produced premature systolic, 1933, 103: 559.

premature systolic, in rabbits, 1930, 94: 568.

Arsenite action on medullated nerve, 1935, 111: 711.

effect of, on medullated nerve, 1934, 108: 14.

Arterial blood pressure in unanesthetized dogs, 1934, 107: 518.

Arterial contractions, blood pressure waves and, 1936, 116: 295.

Arterial expansion, rhythmic, in control of heart rate, 1933, 103: 417.

Arterial pressure, estimation of, by Riva Rocci method, 1934, 109: 7.

ventricular adjustment to, 1933, 106: 329.

Arterial pulse, studies on, 1937, 119: 297.

Arteries, aortic intercostal, exchange of body fluids in, 1930, 93: 607.

head, combined effects of occlusion of, and intravenous injection of absinth or camphor-monobromide in cats, 1931, 97: 514.

head, convulsant agents and ligation of, in cats, 1932, 99: 521.

pain-sensibility of, 1933, 104: 259, 267.

velocity of blood flow in, 1936, 115: 632.

visceral, metabolic effects of clamping, 1935, 111: 369.

Arterioles, contraction of, and passivity of venules and capillaries, 1933, 105: 19.

Arteriosclerosis, experimental, in the rat, 1930, 95: 620.

hemodynamics of, 1931, 96: 426.

hemodynamics of, 1932, 101: 33, 376.

Arterio-venous fistula, coronary blood flow in aortic stenosis, aortic insufficiency and, 1936, 115: 94.

Artery, circumflex coronary, blood flow in, 1936, 117: 271.

left coronary, pseudaffective reflex from injections into, 1935, 113: 99.

Artery pressures, pulmonary, 1933, 105: 562.

31.

Ascaris extract, effects of, on circulation and respiration, 1929, 91: 143.

Ascites and other effects of saline injections, 1934, 108: 476.

Ascorbic acid during pregnancy in rabbit, 1937, 119: 455.

Asphyxia by illuminating gas, blood sugar during, 1937, 119: 405.

effect of, on mammalian A nerve fibers, 1937, 119: 111.

of frog kidneys, 1934, 108: 177.

response of spleen volume to, 1930, 92: 249.

Asphyxial poisoning, methylene blue and, 1935, 114: 160.

Atmospheric humidities, reactions of human body to, 1937, 120: 288.

Atmospheric pressure increased, respiratory activity under, 1935, 110: 616.

low, effect of, on glycogen, 1934, 110: 273.

Atmospheric pressures, high, of oxygen, effect of, on man, 1935, 110: 565.

Atrial stimuli, heart rhythm following pacemaker and, 1936, 116: 358.

Atrophy, muscle electrolytes and water during, 1937, 120: 719.

of denervated skeletal muscle, factors in, 1934, 110: 8.

simple disuse, in monkey, 1936, 117: 626.

Atropin and pilocarpin, influence of, on thirst, 1931, 98: 35.

effect of, on skeletal muscle tonus, 1930, 93: 379.

Atropine and acetyl choline, pilocarpine and, blood sugar after, 1936, 114: 551.

and ergotoxine, effect of, on heart rate in unanesthetized cats, 1930, 94: 201.

and gastric secretion, 1937, 120: 657.

and pilocarpine, effect of, on emptying time of human stomach, 1936, 115: 104.

and pilocarpine, effect of, on gastric emptying in dogs, 1936, 115: 113.

blood sugar level after physostigmine and, 1937, 118: 300.

Audition, function of basilar membrane in, 1929, 91: 8.

Auditory acuity, middle ear pressure and, 1934, 110: 312.

Auditory discrimination in the cat, 1935, 112: 1.

Auditory impairment, a v-phone for examining, 1934, 109: 74.

Auditory masking, 1935, 113: 34.

Auditory mechanics, 1935, 113: 107.

is Weber interpretation correct, 1935, 113: 106.

Auditory mechanism, electrical phenomena of, 1933, 105: 27.

Auditory nerve, action potentials of, 1935, 113: 476.

electrical potential of cochlea and, 1937, 120: 666.

stimulation by organ of Corti, 1935, 113: 35.

Auditory nerves, central differentiation of synchronized action potentials in, 1937, 119: 409.

Auditory stimulation and cochlear response to sound, 1934, 109: 704.
brain stem responses to, 1937, 120: 304, 316.

Auditory system, acoustic value of components of, 1936, 116: 33, 252.

Auricular excitability in turtle, vagus control of, 1931, 98: 109.

Autonomic effectors, denervated stimulation of, 1934, 108: 384.

Autonomic nervous action, principle of, 1933, 103: 392.

Autonomic nervous activity and intestinal absorption, 1933, 106: 283.

Autonomic nervous impulses, chemical mediation of, 1932, 102: 12.

Autonomic systems, temporal and spatial summation in, 1933, 106: 365.

Autosynthetic cells, 1932, 101: 26.

Avitaminosis-A and salivary conditioned reflex, 1936, 115: 215. salivary secretion in, 1936, 115: 210.

Axon, spike potential of, 1932, 101: 316.

Axon action potential, ending of, 1930, 94: 247.

Axon excitation in nerve, 1936, 114: 309, 317, 328.

Axon segmentation, 1934, 110: 287.

Axons, individual, irritability studies on, 1933, 105: 8. properties of, 1933, 106: 524.

B

Bacteria, osmotic and surface properties of, 1937, 119: 329.

Barbital, studies on, 1933, 105: 64.

Barbital action, experimental analysis of, 1934, 109: 65.

Barbiturate action, duration of, 1935, 113: 82.

Barbiturate structure, delayed death in relation to, 1936, 116: 78.

Barbiturates, factors governing distribution of, 1935, 113: 35.

Barbituric acid derivatives, colorimetric detection of, 1934, 109: 64.

Barometric pressures, high, psychologic effects of, 1935, 112: 554.

Basal insulin requirement of depancreatized dogs, 1937, 120: 345.

Basal metabolic rate, effect of physical training on, 1931, 98: 595.

Basal metabolism and vital capacity of Syrian women, 1930, 92: 189.
and nutritional status, 1931, 98: 698.

during conditioned salivation, 1931, 98: 25.

effect of amniotin on, 1933, 105: 241.

effect of dinitrophenol on, 1933, 106: 432.

effect of ovarian hormone on, 1936, 115: 645.

effect of pituitary preparations on, 1930, 95: 396.

effect of posterior pituitary extracts on, 1931, 96: 640.

in Orientals, 1930, 91: 661.

in pre-adult years, standards for, 1935, 111: 630.

of Mayas in Yucatan, 1931, 96: 518.

of Mayas in Yucatan, 1932, 100: 274.

of Oklahoma women, 1931, 98: 692.

of pigeons, influence of season on, 1934, 107: 333.

of the Araucanian Mapuches, 1933, 105: 383.

n, 1937.

Basilar membrane, function of, in audition, 1929, 91: 8.

Beginning, in, 1937, 119: 304.

Bee venom, determination of potency of, in vitro, 1933, 105: 251.

"Berger rhythm" in normal man and in general paretics, 1936, 116: 77.

Beriberi, experimental, nervous system in, 1935, 111: 660.

Bigeminal pulse in rabbits, 1930, 95: 190.

in rabbits, 1931, 96: 243.

in rabbits, 1931, 98: 344.

in rabbits, 1933, 103: 559.

Bile, anion-cation content of, 1932, 100: 317.

effect of secretin on secretion of, 1931, 99: 94.

effect of viosterol on calcium content of, 1934, 109: 60.

effect of viosterol on calcium content of, 1934, 110: 471.

excretion of dye and other substances in, 1932, 100: 433.

fecal fat in absence of, 1936, 117: 525.

flow of, into duodenum, 1931, 99: 237

hepatic, acid-base composition of, 1934, 107: 378, 388, 400.

human duodenal, fatty acids of, 1934, 107: 1.

influence of, on absorption of oleic acid, 1935, 112: 669.

influence of, on sterol in feces, 1936, 116: 317.

rate of secretion of, 1936, 115: 23.

relation of, to secretion of pancreatic juice, 1934, 107: 584.

rôle of, in transport of fat-soluble vitamins, 1935, 111: 492, 502.

saponifiable and non-saponifiable matter in, 1936, 116: 87.

saponifiable and non-saponifiable matter in, as affected by diet, 1936, 116: 87.

secretion after denervation of liver, 1931, 98: 612.

secretion of sodium cholate in, 1937, 120: 75.

Bile acids, blood clearance and renal excretion of, after injection of cholic and desoxycholic acids, 1936, 117: 665.

Bile duct ligation, serum and urine phosphatase after, 1937, 120: 696.

Bile flow, action of nitrogenous bases of gastric juice on, 1936, 115: 604.

into duodenum, effect of cholecystochinin on resistance of, 1934, 109: 92.

Bile formation after denervation of liver, 1931, 98: 602.

Bile pigment and hemoglobin interrelation, 1931, 96: 449, 463.

Bile pigment formation from hemoglobin, 1931, 97: 654.

Bile preparations, toxicity of, 1930, 91: 609.

Bile salts and cholesterol, absorption of, from bile-free gall bladder, 1932, 99: 656.
effect of, on oxygen consumption of dog tissues, 1936, 115: 82.

from blood, rate of removal of, as affected by thyroxine, 1936, 116: 138.

influence of liver in formation and destruction of, 1936, 116: 214.

thyroxine injection and toxicity of, 1934, 108: 613.

Billary tract, extrahepatic, during anaphylaxis, 1935, 112: 430.

Bilirubin, removal of intravenously injected, from blood stream, 1937, 119: 713.

site of formation of, 1931, 98: 262.

Bioassay of adrenal cortical extracts, 1936, 117: 678.

Bioelectrical measurements on amoebae, 1931, 98: 475.

Black tongue, experimental, nervous lesions in, 1934, 109: 440.

vitamin G as preventive of, 1936, 114: 429.

Block of cardiac impulse, 1934, 110: 376.

unidirectional, in heart muscle, 1929, 91:65.

Blood, acacia in, after its intravenous injection, 1935, 113: 107. acetone of, on low carbohydrate diet, effect of exercise on, 1934, 108: 55. adult, milieu of germ cells and embryonic tissue as hypotonic to, 1933, 105: 56. after irradiation, reducing power of, 1930, 93: 146. amount of, traversing shortest systemic paths, 1933, 104: 650. and aqueous humor, osmotic relation of, 1933, 104: 235. and augmentation of pituitary gonadotropic extracts, 1937, 119: 574. and body fluids, osmotic relations between, 1933, 103: 143. and cerebrospinal fluid, glucose ratio of, 1933, 103: 613. and digestive fluids, osmotic relations between, 1933, 104: 476. and gastric juice, distribution of sugar between corpuscles and plasma, 1932. and gastric juice, osmotic relations between, 1931, 97: 525. and gastric juice, osmotic relations of, 1932, 101: 42. and glandular secretions, osmotic relations of, 1931, 99: 172. and intestinal lumen, passage of urea between, 1932, 101: 391. and lymph, dog, colloid osmotic pressure of, 1931, 98: 70. and lymph flow from gastro-intestinal tract, effect of heat on, 1937, 119: 197. and lymph, rapidity of interchanges between, 1931, 98: 378. and muscle lactic acid in steady state, 1937, 118: 697. and muscle oxy- and carboxyhemoglobin, 1933, 103: 75. and muscle sugar, effect of epinephrine on exchange of, 1932, 101: 95. and muscles, factors affecting distribution of lactates between, 1930, 93: 672. and plasma viscosity, 1935, 110: 659. and saliva, pH changes of, during pulmonary ventilation, 1935, 113: 16. and saliva, pulmonary ventilation and pH of, 1936, 116: 174. and tissue lactic acid after bicarbonate injection, 1933, 106: 134. and tissues, transfer of bicarbonate between, 1932, 100: 122. and urine, arterial, correlation of pH of, produced by changes in pulmonary ventilation and chemical injection, 1937, 119: 276. and urine sugar and urine protein in exercise, 1931, 98: 352. at high altitude, oxygen dissociation curve of, 1936, 115: 292. changes in chemical elements of, after excitement, 1933, 105: 59. circulating, cooling effect of, 1936, 117: 708. circulation of, as related to cutaneous stimulation, 1936, 114: 269. clotting and citrated, dark-field microscopy of blood platelets in, 1934, 109: 34. coagulability of and of blood plasma, 1936, 116: 3. conductivity of, during coagulation, 1930, 94: 531. diet and hemoglobin concentration of, 1935, 113: 582. distribution of ferrocyanide, inulin, creatinine and urea in, 1935, 113: 629. distribution of glucose in, 1935, 111: 551. distribution of glucose in, 1936, 117: 335. dry, phytotoxic reactions of, 1937, 119: 367. during excitement, reticulocyte increase in, 1937, 119: 379. during glycolysis, partitioning of phosphate compounds in, 1934, 109: 76. effect of circulation of, on osmosis into frog skin, 1931, 96: 587. effect of fibro-deutero-proteose on, 1935, 113: 19. effect of high oxygen pressure on chemical composition of, 1934, 107: 29. effect of high oxygen pressure on oxygen content of, 1934, 107: 13. effect of motion on electrical conductivity of, 1937, 118: 708. effect of movement of, on vessel tone, 1933, 105: 77. effect of rattlesnake venom on, 1930, 92: 335. effect of temperature on volume flow of, 1937, 119: 311.

105: 56.

a, 1932.

: 197.

3: 672.

onary

9: 34.

erythrocyte volume of, viscosity and, 1935, 114: 128. factors in coagulation of, 1930, 95: 1.

flow in muscles, hot wire anemometer for, 1930, 95: 554.

following trauma, histamine-like substances in, 1937, 119: 375.

glutathione content of, 1934, 109: 65.

hematopoietic action of cobalt, 1936, 114: 414.

hemolyzed, absorption spectrum of, in rickets, 1931, 97: 243.

hemophilic, anticoagulant in, 1931, 98: 131.

hen's, changes in, produced by diet, 1930, 94: 65.

hepatic and portal vein, glucose in, 1934, 109: 303.

histamine-like substances in, 1937, 119: 375.

in hemorrhage, rate of entrance of fluid into, 1933, 105: 1.

inorganic constituents of, parathormone and, 1930, 92: 25.

intramuscular pressure and venous return of, 1936, 114: 261.

motion and electrical conductivity of, 1935, 113: 121.

muscle and, epinephrin and sugar exchange of, 1934, 108: 107.

normal and pathological, toxicity of, to plant seedlings, 1931, 96: 662.

normal human, gaseous contents of, 1937, 118: 225.

of anesthetized dogs, effect of high frequency current, on, 1932, 101: 203.

of birds, sex and seasonal differences in, 1934, 108: 554.

of dystrophic rabbits, biochemical studies on, 1936, 116: 149.

of emotionally excited rabbits, reticulocytes in, 1934, 109: 60.

of emotionally excited rats, specific gravity of, 1931, 97: 548.

of fowls, hemoglobin content of, 1931, 96: 89.

of growing rats, hemoglobin concentration of, 1934, 108: 373.

of human subjects during fetal liver feeding, 1933, 104: 364.

of man, variations in white cell count in, 1933, 105: 547.

of pigeons during emotional excitement, changes in specific gravity of, 1936, 116: 114.

of pigeons, viscosity of, after excitement, 1934, 109: 569.

of rat, reticulocytes in, 1934, 108: 66.

of rats, sex hormone in, 1932, 101: 246.

of seal, respiratory characteristics of, 1935, 113: 70.

or serum, jaundiced, effect of, on phosphatase, phosphorus and sugar of dogs, 1937, 119: 311.

passage of substances from, to lymph, 1932, 101: 232.

peripheral, reflex control of temperature of, 1934, 107: 55.

physiology of, 1930, 93: 636.

pressure, venous, 1930, 95: 294.

rabbit, clotting time of, after intravenous administration of ricin, 1936, 116: 136.

relation of exercise to physico-chemical changes in, 1934, 107: 370.

reptilian, toxicity of, 1935, 113: 94.

rôle of tissues in acid-base equilibrium of, 1929, 91: 150.

shifting of, in experimental animals, effects of various stimuli on, 1936, 116: 60.

spleen and, in nutritional anemia of rat, 1935, 111: 578.

venous, changes in, after severe exercise, 1934, 107: 687.

venous, hemoglobin in consecutive samples of, 1934, 110: 37.

volume flow of, in sympathectomized limb, 1937, 120: 475.

volume flow of, with changing respiratory conditions, 1930, 95: 446.

water retention in, after ingestion of glucose, 1931, 98: 216.

See Circulation.

See Plasma. See Serum. Blood acetone after administration of hypophysis, 1936, 115: 424. source of, and site of antiketogenic action of insulin, 1936, 116: 110.

Blood calcium and protein changes in rest and sleep, 1936, 116: 531.

effect of ergosterol and parathyroid extract on, 1936, **115**: 701. in circulation of laying hens, 1930, **93**: 86.

in relation to sympathetic activity, 1930, 93: 111.

of laying hens, 1930, 94: 692.

parathyroid hormone and, 1935, 113: 141.

Blood capillaries, absorption of substances by, 1933, 105: 19. permeability of, to lipoids, 1934, 109: 467.

permeability of walls of, 1936, 116: 597.

Blood cell, red, permeability of, to glucose, 1935, 111: 231.

Blood cell changes, qualitative, due to vitamin A, 1935, 111: 397.

Blood cell counts, peripheral, variations in, 1930, 93: 665.

red, by light transmission, 1935, 111: 99.

Blood cell fragility and splenic derivatives, 1935, 113: 38.

decreased, after splenectomy, 1937, 120: 150.

Blood cell picture, white, in six young men, 1937, 118: 690.

Blood cell surfaces, properties of, influencing rouleau formation, 1936, 115: 31.

Blood cells, cortico-adrenal extract and, 1932, 102: 699.

and serum, glucose distribution in, 1937, 118: 431.

migration of, in frog capillaries, 1936, 114: 700.

red, effect of copper on, 1935, 113: 23.

red, experimental index of production of, 1937, 119: 24.

red, massive hemorrhages and size of, 1933, 103: 407.

red, relation of spleen to life of, 1937, 118: 757.

white, effect of digestion on, 1933, 106: 309.

white, in peripheral circulation of emotionally excited rabbits, 1934, 109: 80. See Erythrocyte.

Blood changes after administration of corpus luteum, 1930, 94: 586.

after denervation of liver, 1931, 98: 610.

and physical activity in rats, 1935, 112: 695.

and physical training, 1935, 113: 586.

and vitamin B, 1930, 91: 520.

associated with physical exhaustion, 1935, 111: 622.

associated with sweating, 1931, 97: 426.

associated with sweating, 1932, 100: 328.

associated with sweating, 1933, 104: 441.

due to emotional excitement, 1934, 107: 709.

during and after exercise, 1925, 112: 202.

following adrenal insufficiency, 1934, 108: 428.

from diet poor in inorganic salts, 1930, 94: 107.

in adrenal insufficiency, 1937, 118: 594.

in bacterial fever, 1932, 101: 106.

in experimental hypo- and hyperthyroidism, 1932, 99: 469.

in fever induced by killed B. coli, 1931, 97: 502.

in rabbits from birth to maturity, 1932, 99: 463.

produced by partial inanition and muscular fatigue, 1933, 104: 669.

respiratory metabolism and, of anesthetized dogs by high frequency current, 1931, **96**: 439.

Blood chemistry of developing chick, 1937, 119: 627.

of thyro-parathyroidectomized dogs, 1933, 105: 643.

variations of, in men and women, 1932, 101: 45.

Blood chemistry changes in complete pancreatic drainage, 1931, 97: 459.

Blood chlorides and chlorides of edema fluid from superficial burn, 1930, 95: 334.

Blood cholesterol in thyroid disturbances, 1933, 103: 1.

Blood circulation in fetal rat, 1932, 101: 24.

Blood circulation time in dogs as measured by ionization methods, 1936, 116: 142.

Blood clearance and renal excretion of bile acids after injection of cholic and desoxycholic acids, 1936, 117: 665.

Blood clots, platelets and physical properties of, 1936, 114: 709.

platelets and spontaneous syneresis of, 1934, 110: 278.

Blood clotting, 1936, 114: 667.

influence of urea on, 1930, 94: 51.

influence of urea on, 1931, 96: 509.

lung extract and, 1934, 107: 63.

Blood coagulability and sugar and calcium, 1932, 100: 40.

Blood coagulation, action of calcium in, 1937, 119: 307.

action of heparin and thromboplastin in, 1936, 115: 317.

activation of, 1936, 117: 587.

activity of lecithin in, 1930, 91: 423.

and tissue extracts, 1931, 97: 233.

by snake venoms, 1937, 119: 300.

calcium in, 1929, 91: 27.

cephalin and corneal extracts in, 1936, 116: 48.

certain sulfur compounds and, 1936, 117: 92.

chemical reactions in, 1931, 97: 74.

in experimental hemorrhagic disease, 1937, 118: 260.

in sweet clover disease of cattle, 1931, 96: 413.

intermediate calcium complex in, 1937, 119: 755.

tissue extracts and, 1937, 118: 633.

Blood coagulation time of adrenalectomized rats, 1931, 96: 305

relation of calcium to, 1937, 118: 703.

Blood composition and oxygen want, 1931, 98: 373.

in experimental hydremia, 1933, 105: 16.

Blood concentration and anesthesia, 1933, 106: 35.

initial effect of vasoconstriction on, 1931, 97: 570.

the spleen and, 1930, 93: 649.

Blood constituents after adrenalectomy, cortin and, 1937, 118: 302.

after intravenous calcium salts, 1936, 115: 1.

and oxygen consumption in nerve, 1935, 111: 697.

effect of pituitary extracts on, 1932, 101: 711.

inorganic, relation of autonomic system to, 1930, 93: 667.

of hypophysectomized dog, in response to epinephrine, 1935, 113: 306.

Blood content of brain, hypertonic solutions and, 1931, 98: 363.

Blood corpuscles, permeability of, to glucose, 1936, 114: 488.

Blood count, variations in, 1935, 111: 655.

Blood count variations with age in rat, 1934, 108: 324.

Blood counts at reduced oxygen tensions, 1935, 113: 166.

daily, in menstrual cycle, 1936, 114: 452.

during muscular inactivity, 1934, 108: 118.

errors in, 1935, 113: 416.

physical activity and, 1935, 113: 430.

red, indirect method for making, 1934, 108: 125.

Blood cytology during excitement in rabbits, 1935, 113: 102.

Blood density during fever caused by typhoid vaccine and malaria, 1937, 119: 392.

rent.

Blood electrolytes, relation of, to gastric chlorides, 1931, 99: 172.

Blood fat, effect of emotional stress on, 1931, 97: 533.

effect of fasting, phlorhizin and pancreatectomy on, 1932, 99: 619.

effects of adrenalin, ephedrine and insulin on, 1931, 97: 648.

Blood fibrin studies, 1930, 93: 554.

Blood fibringen level in hepatectomized dogs, 1930, 94: 144.

Blood flow affected by chemical stimulation of carotid sinus, 1932, 101: 6.

and gaseous metabolism of liver, 1936, 117: 328. and intrathoracic blood volume, 1930, 93: 654.

and oxygen consumption of various organs, 1937, 118: 368.

and urea clearance, 1934, 110: 387.

arterial and venous plasma sugar and, effect of epinephrine on, 1935, 114: 53.

changes in, in chronic aortic regurgitation, 1934, 107: 414.

coronary, 1936, 116: 43.

coronary, electrocardiogram and blood pressure of dog, 1937, 119: 303.

coronary, in aortic stenosis, etc., 1936, 115: 94.

coronary, in hypertension, 1936, 114: 609.

coronary, phasic changes in, 1935, 112: 627.

coronary, reflex control of, 1935, 113: 399.

coronary, variability of distribution of, 1935, 113: 76.

effect of acetylcholine on, 1936, 114: 695.

effect of digestion on, 1934, 108: 621.

effect of posterior pituitary preparations on, 1934, 109: 37.

effect of sympathectomy on, 1932, 101: 3, 213.

effect of temperature on, in sympathectomized hand, 1935, 113: 45.

effect of thyroid feeding on, 1933, 105: 434.

effects of CO2 in frog kidney, 1935, 111: 64.

femoral, after lumbar sympathectomy, 1933, 103: 592.

from liver, 1933, 105: 31.

glomerular, splanchnic regulation of, 1930, 91: 436.

in circumflex coronary artery, 1936, 117: 271.

increased, relation of duration of, to length of circulatory arrest, 1934, 108: 486.

in left coronary artery of intact dog, 1935, 113: 39.

in lung capillaries, 1934, 109: 236.

in relation to muscle tension, 1932, 101: 68.

method of measuring, 1933, 105: 4.

of kidney, 1932, 99: 696.

peripheral, effect of temperature on, 1935, 113: 384.

peripheral, effects of chemical agents on, 1933, 105: 6.

peripheral, in surgical shock, 1936, 116: 52.

phasic, in right coronary artery, 1937, 119: 580.

reduced coronary, ventricular alternation from, 1936, 114: 407.

Rein thermostromuhr method of measuring, 1937, 119: 263.

renal, and clearance of hippuran, 1937, 118: 739.

renal and renal oxygen consumption, determination of, 1937, 118: 667.

renal, hypertension and, 1936, 116: 616.

renal, in diuresis and antidiuresis, 1937, 118: 95.

study of, 1929, 91: 115.

systolic and diastolic, in right coronary artery, 1936, 116: 67.

thermo-stromuhr method of measuring, 1935, 113: 61.

through liver, effect of variations in, on flow of bile, 1937, 119: 412.

through pancreas, pancreatic duct pressure and, 1933, 106: 454.

velocity of, in arteries, 1936, 115: 632.

venous, continuous measurement of, 1934, 109: 688.

Blood formation, effect of cobalt and manganese on, 1934, 108: 545.

Blood gas content and capacity during hyperthermia, changes in, 1931, 97: 548.

Blood gases and human cerebral blood flow, 1935, 111: 557

Blood glucose, effect of stimulation of hypothalamus on, 1930, 93:658.

Blood glycolysis, effect of arsenate on, 1932, 101: 77.

Blood guanidine and parathyroid deficiency, 1933, 106: 738.

Blood humoral action of vagus substance in, 1931, 98: 435.

Blood iodine after total thyroidectomy, 1934, 109: 26.

Blood lactic acid, effect of epinephrine on, 1930, 93: 273.

effect of tobacco smoking on, 1934, 109: 118.

under high oxygen pressure, 1932, 101: 6.

under high oxygen pressure, 1932, 102: 439.

Blood lipids during pregnancy in guinea pigs, 1936, 114: 635.

Blood loss in chronic spinal cats, compensation for, 1935, 113: 19.

Blood morphology in pregnancy, 1931, 96: 112.

Blood observations on Indian natives of Peruvian Andes, 1932, 100: 487.

Blood osmotic pressure and insensible weight loss, 1933, 104: 392.

fluid distribution and water intake, relation between, 1937, 120: 323

Blood phosphate after glucose injections, 1934, 110: 117.

Blood phosphates after strenuous muscular exercise, 1933, 103: 367.

Blood phosphorus after parathyroidectomy, 1930, 92: 1.

effect of irradiated ergosterol and parathormone on, 1934, 109: 104.

Blood picture in chronic CO poisoning, 1935, 110: 611.

of rats, normal, 1934, 108: 61.

Blood plasma in fishes, colloid osmotic pressure of, 1935, 113: 132.

turtle, colloid osmotic pressure, nitrogen content and refractive index of, 1936,

venous, effect of reduction in blood flow through skeletal muscles on potassium content of, 1935, 113: 4.

Blood plasma dilution after saline injection, 1936, 117: 102.

Blood-platelet count, effect of emotion on, 1930, 93: 245.

Blood platelets, alterations of, as factor in coagulation, 1934, 108: 670.

circulating, seasonal variations in, 1937, 119: 439.

in spontaneous syneresis of clots, 1935, 110: 278.

Blood potassium, clinical effects accompanying changes in, 1937, 119: 427.

Blood pressure, action of nitrogenous bases of gastric juice on, 1936, 115: 604.

and cardiac output, carbon are radiation and, 1936, 114: 594.

and cardiac responses of preadolescent boys to exercise, 1936, 114: 473.

and plasma protein of frog, 1929, 91: 265.

and reactions to histamine in rat after hypophysectomy and adrenalectomy, 1934. 109: 115.

arterial, in unanesthetized dogs, 1934, 107: 518.

arterial, indirect estimation of, 1935, 112: 182.

as chief factor modifying water content of tissues, 1931, 97: 501.

capillary, in mammalian mesentery, 1930, 93: 353.

carotid sinus and, 1933, 104: 443.

carotid sinuses and depressor nerves, 1935, 110: 513.

effect of CO2 on, 1933, 105: 62.

effect of continuous intravenous injection of epinephrine on, 1937, 119: 298. effect of epinephrin on, 1930, 93: 273.

: 53.

: 486.

effect of menstrual cycle on, 1931, 96: 1.

effect of rattlesnake venom on, 1930, 92: 317.

effects of vagotomy on, 1930, 92: 275.

high and low, in cats, relation of minimal convulsive dose of absinth or camphorto, 1931, 97: 514.

hypervitaminosis D and, in dogs, 1933, 105: 294.

in acute carbon monoxide poisoning, 1937, 120: 91.

in dogs, 1931, 97: 588.

indirect and direct, in dogs, 1932, 101: 68.

indirect measurement of, 1933, **103**: 48, 321.

influence of carbon arc radiation on, 1932, 101: 68.

influence of skeletal muscle tension and relaxation on, 1936, 116: 86.

in man, 1932, 100: 604.

in man, 1932, 101: 5.

in man, direct intra-arterial, 1932, 101: 140.

in new born, 1937, 119: 392.

in normal and ovariectomized rats, 1937, 119: 408.

of dogs, effect of prolonged treatment with methyl guanidine sulphate on, 1930, 93: 688.

progressive sympathectomy and, 1931, 97: 592.

relation of, to abdominal pressure, 1933, 104: 120.

renal, and glomerular filtration, 1934, 107: 227.

respiration and, periodic changes in, 1934, 110: 464.

systolic and diastolic, continuously recorded, 1937, 119: 295.

venous, and intramuscular pressure, 1936, 114: 261.

venous, effect of bulbocapnine on, 1935, 113: 43.

See Hypertension.

Blood pressure determinations, effect of partial and complete arterial occlusion on, 1932, 101: 72.

Blood pressure manometer, optical, 1937, 119, 321.

Blood pressure reflexes in sympathectomized animals, 1936, 115: 711.

Blood pressure response to splanchnic stimulation, 1931, 99: 160.

Blood pressure responses to central vagal stimulation, 1935, 113: 95.

Blood pressure studies in small animals, 1937, 119: 663.

Blood pressure tracings, 1935, 113: 59.

of small animals, 1936, 116: 164.

Blood pressure values in unanesthetized dog, 1937, 118: 399.

Blood pressure variations, spinal vasomotor reflexes and, 1936, 117: 619.

Blood pressure waves and arterial contractions, 1936, 116: 295.

Blood pressures in fetus, 1937, 119: 206.

Blood production, effect of brewer's yeast on, 1936, 116: 626.

Blood protein and calcium changes in sleep and rest without sleep, 1936, 116: 30.

Blood protein regeneration after bleeding, 1935, 114: 204.

influence of diet on, 1936, 116: 109.

Blood regeneration in severe anemia, 1935, 113: 467.

1931, 98: 636.

1932. 99: 391.

in nutritional anemia, utilization of colloidal iron in, 1937, 118: 211.

in severe anemia, 1930, 92: 362, 378, 388, 400, 408.

Blood sera and muscle extracts, relation of method of slaughter to toxicity of, 1931, 97: 541

tissue extracts and, in coagulation, 1931, 97: 233.

mphor

, 1930,

on on,

30.

931,

Blood serum and corpuscles, freezing point of, 1932, 101: 21.

and lacteal lymph, proteins in, 1932, 101: 421.

antitryptic properties of, 1930, 94: 241.

glucose distribution in blood cells and, 1937, 118: 431.

maltase activity of, 1936, 114: 534.

of anemic animals, hemopoietine in, 1934, 107: 704.

of mares, sex hormones in, 1930, 94: 597.

of pregnant mares, sex hormone in, 1930, 93: 57.

Blood serum constituents and irradiated ergosterol, 1935, 113: 209.

Blood serum protein of fishes, 1936, 116: 155.

Blood serum volume, measurement of, 1936, 117: 474.

Blood size changes during reproductive cycle in pigeons, 1934, 107: 343.

Blood specific gravity and emotional excitement, 1935, 113: 205. during excitement, 1936, 117: 111.

Blood stream, partition of, in surgical shock, 1937, 118: 734.

removal of injected bilirubin from, 1937, 119: 713. removal of sodium cholate from, 1937, 120: 75.

Blood studies in acute experimental hyperparathyroidism, 1936, 116: 25.

Blood sugar, action of secretin on, 1930, 91: 496.

after adrenal-portal anastomosis, 1934, 108: 42.

after intravenous insulin, 1937, 119: 531.

and amino acids, effect of acetylcholine on, 1936, 117: 542.

and basal metabolism in pigeons after prolactin and cortin, 1937, 119: 389.

and blood flow, effect of epinephrine on, 1935, 114: 53.

and glucose tolerance at high altitudes, 1936, 116: 309.

and lactic acid following burns, 1931, 96: 35.

and subcutaneous lymph after insulin, 1933, 105: 674.

chronaxie and, 1932, 101: 54.

effect of calcium salts on, 1935, 113: 72.

effect of diverting adrenal vein blood into portal vein on, 1931, 97: 517.

effect of epinephrin on, 1930, 93: 273.

effect of histamine on, 1934, 108: 424.

effect of lactogenic hormone on, 1935, 112: 714.

effect of lecithin and NaCl on, 1933, 104: 344.

effect of sympathin on, 1936, 116: 12

effect of tobacco smoking on, 1934, 109: 118.

effects of secretin on, 1930, 91: 649.

experimental hypothalamic lesions and, 1936, 114: 555.

following autonomic drugs, 1936, 114: 551.

glycolysis and oxidation of, 1932, 99: 408.

heart rate and, after hypophyseal extracts, 1930, 95: 605.

homeostatic regulation of, by liver, 1937, 119: 407.

in dogs, influence of sympathetic nerves on effect of pituitary extracts on, 1936, 116: 74.

in turtle, 1932, 101: 11.

of adrenalectomized dog, 1936, 117: 13.

of adrenalectomized rats, 1930, 93: 152.

of depancreatized dogs, liver feeding and, 1930, 94: 548.

of rat, effect of temperature on, 1932, 99: 555.

raising substance in diabetic urine, 1937, 118: 659.

relation of hunger contractions to, 1933, 104: 371.

relation of hypophysis and adrenal cortex to, 1937, 120: 649.

Blood sugar changes during sixty-hour fasts, 1934, 109: 45. maternal and fetal, 1930, 95: 178.

Blood sugar concentration in exercise, 1934, 108: 203.

Blood sugar level, absinthe and, 1936, 116: 81.

after administration of physostigmine and atropine, 1937, 118: 300.

after insulin and epinephrine, 1934, 109: 56.

after physostigmine and atropine, 1936, 116: 81.

and rate of sugar utilization, 1937, 120: 761.

assay of insulin and, 1934, 107: 284.

epinephrine and, 1937, 119: 1.

in rat and dog, effect of sodium amytal on, 1931, 97: 518.

of adrenalectomized rats, effect of alpha-lobelin on, 1931, 97: 553.

Blood sugar levels, gastro-intestinal motility and, 1932, 100: 102.

Blood sugar recovery after insulin hypoglycemia, 1937, 120: 435.

Blood sugar regulation in exercise, 1935, 111: 21.

Blood sugar response to insulin, liver function and, 1934, 110: 488.

Blood supply, curtailed, to brain, circulatory changes from, 1930, 95: 371, 382.

Blood urea determination by magneto-optic method, 1935, 113: 73.

Blood uric acid after intravenous injection of uric acid, 1932, 102: 620.

Blood values in dogs, rabbits and rats, 1936, 114: 502.

Blood variations, inactivity and, 1933, 105: 96.

Blood vascular system, effect of estrin on, 1931, 96: 677.

Blood velocity and arterial pulse, 1936, 116: 36.

in shortest systemic paths, 1933, 104: 650.

Blood velocity measurement, 1932, 101: 70.

Blood venous, red cells in consecutive samples of, 1934, 110: 37.

Blood vessel movement and tissue fluids, 1933, 106: 95.

Blood vessels, cerebral, response of, to sympathetic stimulation, 1936, 114: 278. effect of dorsal root stimulation on muscles of, 1935, 113: 16.

effect of Janus green on, 1931, 97: 520.

occlusion of, by agglutinated red cells, 1937, 120: 59.

of brain stem and spinal cord, reactions of, 1934, 109: 52.

of man, reactions of, 1934, 107: 529.

of medulla, intrinsic regulation of, 1934, 108: 241.

pain-endings in, 1934, 107: 594.

pial, of rabbit, 1935, 113: 63.

small, micromanipulation of, in mouse, 1937, 120: 23.

Blood viscosity and emotional excitement, 1934, 107: 113.

in narrow capillary tubes, 1931, 96: 562.

influence of crotalin on, 1931, 97: 26.

Blood volume and hematocrit in excited rabbits, 1933, 105: 75.

and pressure in formation of lymph in frog, 1930, 95: 91.

circulating, portal system and, 1933, 106: 423.

effect of sympathetic hyperactivity on, 1933, 103: 185.

extracellular fluid and electrolyte balance, 1937, 119: 320.

in diuresis, 1937, 118: 251.

in emotional excitement, 1934, 108: 349.

in normal and Eck-fistula dogs after intravenous injection, 1932, 101: 24.

in normal dogs, 1930, 92: 665.

in shock, 1930, 94: 579.

in suprarenalectomized rats, 1930, 94: 579.

of adrenalectomized dogs, 1934, 109: 488.

of rat in suprarenal insufficiency and shock, 1930, 93: 700, of rats, 1935, 113: 150.

regulation of, 1933, 105: 135.

Blood volume determination, homologous serum in, 1934, 107: 120.

Blood volume flow in reactive hyperemia, 1933, 105: 73.

peripheral, changes in, produced reflexly, 1934, 109: 8. Blood volume increase, circulatory effects of, 1933, 104: 423.

Body equilibration with pulmonary nitrogen, 1935, 112: 545.

Body fluid, diminished, effect of solution of gum acacia in restoring, 1930, 93: 663.

Body fluids, mechanical factors in exchange of, 1930, 93: 588, 600, 607, 616.

mechanical factors in exchange of, 1933, **106**: 95, 105. occurrence of citric acid in urine and, 1934, **107**: 471.

perivascular seep values in exchange of, 1936, 114: 491.

Body reactions to environmental temperatures, 1937, 120: 1.

Body structure and weight, effect of gonadectomy on, 1936, 114: 515.

Body weight and oestrus after suprarenalectomy, 1934, 108: 438.

Bone, composition of, affected by acid feeding, 1932, 101: 20.

rachitic, x-ray diffraction study of, 1934, 108: 74.

regional analysis of, 1932, 101: 83.

Bone calcification, effect of gastrectomy in young dogs on, 1936, 116: 22.

Bone changes due to low inorganic salt diet, 1936, 115: 556.

Bone formation in thyroparathyroidectomized dogs, 1932, 100: 262.

relation of, to blood elements, 1932, 101: 23

Bone marrow in rabbits, temperature of, 1935, 113: 68.

of rat, nucleated cells in, 1936, 117: 662.

rabbit, oxygen consumption of, 1934, 110: 61.

temperature conditions in, 1936, 115: 395.

Bone marrow volume in adult dogs, 1933, 104: 352.

Bone regeneration, influence of thyroid feeding and thyro-parathyroidectomy on, 1936, 116: 84.

Botulinus toxin, site of action of, 1936, 117: 393.

Bowel, large, innervation of, 1930, 94: 501.

Brain, action potentials after lesions, 1936, 114: 692.

changes in our conceptions of localization of certain functions in, 1930, 93: 643.

circulatory changes from curtailed blood supply to, 1930, 95: 371, 382.

circulatory changes of, and respiration, 1930, 95: 371, 382.

control of circulation in, by inspired air, 1934, 109: 58.

decorticate polypneic panting and sham rage in cat: their separate central mechanisms in diencephalon, 1936, 116: 117.

effect of nicotine on oxidations in, 1935, 113: 63.

effects of cautery of, on fetal rat, 1934, 109: 24.

effects of extirpation of frontal association areas of, on behavior, 1934, 109: 59. electrical changes during hypoglycemia, 1937, 120: 559.

fetal rat, electro-cauterization of, 1936, 116: 31.

focal stimulation of interior of, with Horsley-Clarke apparatus, 1936, 116: 126. forced circling movements in monkeys after lesions of frontal lobe of, 1937, 119:

fore-, influence of, on an autonomic reflex, 1937, 120: 257.

fore-, influence of, on reflex responses of nictitating membrane of cat. 1936, 116: 111.

function of, in olfaction, 1935, 111: 257.

hemidecerebrated cat preparation, 1936, 116: 42.

hypertonic solutions and blood content of, 1931, 98: 363.

in petit mal epilepsy, localizable features of electrical activity of, 1936, 116:61.

Bre

Bre

Bro

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Bro

Bro

Bul Bu

Bu

localized thermal changes in, 1936, 116: 59.

mid-, preparations, autonomic discharges in, 1932, 100: 576.

motor disturbances following lesions of cortex, 1930, 95: 584.

oxidizing enzymes from, 1934, 109: 21.

recovery from lesions of motor cortex, 1936, 115: 138.

respiratory quotient of, 1932, 101: 446.

unilateral overflexion of limbs following lesions of, 1933, 105: 45.

See Cerebellum.

See Cerebral.

See Cortex.

See Cortical.

See Hypothalamus.

Brain action potentials, 1934, 109: 38.

Brain activity, temporal and spatial summation of peripheral impulses with, 1936, 116: 8.

Brain and muscle tissue, influence of opium alkaloids and cocaine on auto-oxidation of, 1936, 116: 102.

Brain CO2 during altered oxidations, 1930, 93: 528.

Brain cortex, intrinsic circulatory regulation in, 1936, 114: 572.

monkey's, and spasticity, 1936, 116: 76.

repeated electrical stimulation of, 1932, 100: 64.

threshold stimulation of, 1933, 106: 175.

Brain extracts, oxidizing enzymes in, 1937, 119: 34.

Brain injury, development of fetal rat after, 1936, 115: 599.
in monkeys, restitution of function after, 1936, 116: 85.

Brain lesions and palsy symptoms, 1935, 111: 571.

catalepsy due to, 1932, 101: 690.

effect of, on digestive tract and cardiovascular system, 1933, 105: 61.

heat production in relation to, 1936, 114: 661.

Brain oxidations, dicarboxylic acids in, 1937, 119: 397.

Brain potentials, components of, 1936, 117: 292.

during sleep, 1937, 119: 692.

Brain pressures, relations of, 1933, 105: 266.

Brain stem, latency of electric responses in auditory tracts of, 1936, 116: 91.

local cooling of, in study of central respiratory mechanism, 1936, 115: 402.

respiration and cooling floor of fourth ventricle, 1937, 118: 441.

Brain stem responses to auditory stimulation, 1937, 120: 304, 316.

Brain-stem, periodic breathing as result of placing lesions in, 1930, 93: 664.

Brain-stem lesions and respiration, 1931, 96: 59.

Brain tissue, lactic acid formation in, 1932, 101: 469.

Brain transection in newborn rabbits, 1931, 97: 397.

Brain transections and motor mechanism of frog, 1937, 119: 351.

Brain waves, pacemakers of, 1936, 116: 604.

Brain weight and moisture in encephalomalacia, 1936, 115: 610.

Brainstem lesions, movie pictures of animals with, 1935, 113: 78.

Breath, observations on holding, 1930, 94: 464.

Breathing a reflex phenomenon, 1934, 109: 39.

alterations in, from chemical applications to floor of fourth ventricle, 1937, 119: 380.

central mechanism controlling, 1936, 117: 423.

chemical control of, 1932, 101: 647.

factors which determine rate and depth of, 1937, 119: 55.

forced, CO2 and, circulatory effects of, 1930, 94: 287.

individuality of, 1936, 115: 168.

muscular afferent impulse in control of, 1932, 100: 68.

rate and depth of, 1937, 120: 105.

stellate ganglia and, 1936, 115: 357.

See Respiration.

: 61.

36.

ion

Breathing illuminating gas, effects of, 1933, 105: 88.

Breathing patterns in cult of Yoga, metabolic study of three, 1934, 109: 74.

Bromide, adsorbed, in cerebrospinal fluid, 1934, 109: 193.

Bufagin and marinobufotoxin, action of, 1931, 97: 511.

Bronchial musculature of rabbits and guinea pigs, effects of 1-m hydroxyphenylethanolmethylamine hydrochloride on, 1936, 116: 99.

Bronchial reflexes in guinea pig, 1931, 96: 647.

Bulbocapnine studies on peripheral behavior, 1933, 105: 83.

Burns, blood sugar and lactic acid following, 1931, 96: 35.

superficial, nature and effects of, 1930, 95: 302, 315, 325, 330, 334, 339.

Bursa, thymus and, function of, in pigeons, 1931, 97: 343.

(

Caesium, excretion of, by mouse, 1933, 106: 314.

Caffeine, action of, on vagus fibres of chick heart, 1932, 100: 357.

and diuresis in man, 1930, 92: 619.

and strychnine, routes of absorption of, in fish, 1934, 109: 83.

Calcification in fluorine toxicosis, 1933, 103: 489.

Calcium and inorganic phosphorus in horse serum, 1936, 115: 90.

and parathormone, effect of, on serum calcium, 1937, 118: 52.

and phosphorus in diet, effects of, 1933, 105: 585, 596, 608, 621.

and phosphorus metabolism, 1931, 97: 142.

and phosphorus metabolism, effect of anterior hypophyseal extract on, 1937, 118: 588.

and potassium ions, effect of, on smooth muscle in situ, 1934, 108: 46.

blood, of laying hens, 1930, 94: 692.

excess, in sera of dogs receiving large doses of irradiated ergosterol, 1931, 97: 566.

in coagulation of blood, 1929, 91: 27.

in plasma after severe muscular exercise, 1936, 115: 539.

in serum in jaundice, 1930, 92: 630.

of blood, effect of ergosterol and parathyroid extract on, 1936, 115: 701.

of blood, parathyroid hormone and, 1935, 113: 141.

of cerebrospinal fluid, 1933, 103: 455.

relation of, to coagulation time of blood, 1937, 118: 703.

utilization of, in pasteurized milk, 1933, 104: 1.

Calcium absorption, 1932, 101: 99.

from bile-free gall bladder, 1932, 99: 648.

Calcium appetite, increased, of parathyroidectomized rats, 1936, 116: 128.

Calcium balance, potassium-, and action of nerve fibers, 1937, 118: 613.

Calcium chloride intravenously injected, fate of, 1935, 113: 84.

intravenously injected, influence of irradiated ergosterol and parathyroid extract on rate of disappearance of, 1936, 116: 52.

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Calcium content of frog nerve, 1934, 109: 457.

Calcium complex, intermediate, in blood coagulation, 1937, 119: 755.

Calcium compounds, effect of, on digestion, 1931, 97: 386.

Calcium excretion in urine of lactating rats, effect of weaning on, 1936, 116: 123 through intestine, 1930, 93: 544.

Calcium lactate, effect of intravenous injection of, on gastric secretion, 1930, 94:

Calcium salts, effect of intravenous injection of, on blood, 1936, 115: 1. effect of, on uterine motility, 1933, 105: 358.

Calorigenic action of anterior pituitary extracts, 1935, 110: 584. of fat and carbohydrate in pancreatic diabetes, 1935, 112: 124. of lecithin, 1932, 100: 597.

of vitamin D, rôle of thyroid in, 1936, 117: 1.

Calorimeter, bath, heat exchange and vasomotor responses in, 1936, 117: 36.

Calorimetry, partitional, linearity criterion and, 1936, 116: 656. partitional, new method of, 1936, 116: 641.

partitional, radiation and convection by, 1936, 116: 669.

Camphor and menthol, comparative physiological activity of, 1936, 116: 101.

Capillaries, blood, permeability of walls of, 1936, 116: 597.

frog, migration of blood cells in, 1936, 114: 700. frog, permeability of, to protein, 1935, 112: 401. lymph, in web of frog, 1932, 100: 642. of dog, permeability of, to protein, 1931, 97: 40.

permeability of, to protein, 1930, 95: 98.

Capillary, permeability of, in venous congestion, 1932, 101: 67.

Capillary blood pressure in mammalian mesentery, 1930, 93: 353.

Capillary circulation, Poiseuille's law and, 1933, 103: 432.

Capillary counts in resting and active muscles, 1932, 100: 407.

Capillary permeability and age, 1937, 118: 354.

changes in, produced by burn, 1930, 95: 315. to ealcium, 1936, 115: 539.

Capillary pressure and hyperemia in frog, 1931, 98: 704.

Carbohydrate and phosphorus changes in prolonged muscle, contraction, 1937, 118: 232.

and utilization of ketone bodies, 1937, 119: 734.

calorigenic action of, in pancreatic diabetes, 1935, 112: 124.

production of, from fat, in perfused liver of dog, 1930, 93: 652. Carbohydrate changes after adrenalectomy, 1936, 115: 618.

and muscular contraction, 1935, 112: 565.

in emotion, exercise and exposure to cold, 1932, 101: 94.

Carbohydrate diet, low, effect of exercise on acetone in blood on, 1934, 108: 55.

Carbohydrate formation, adrenal cortex and, 1936, 114: 297.

Carbohydrate levels in hypophysectomized rats, 1937, 118: 196.

Carbohydrate metabolism, 1930, 91: 664, 679.

1930, **92**: 543, 555.

adrenal and, 1937, 118: 15.

after denervation of liver, 1931, 98: 605.

after removal of liver, 1934, 107: 406.

avian, 1936, 115: 389.

cold and, 1932, 100: 685.

cortico-adrenal extract and, 1932, 100: 693.

creatine excretion and, 1936, 115: 364.

effects of epinephrin on, 1930, 94: 69.

exhaustion and, 1932, 100: 685.

fetal, 1935, 113: 450.

94:

hepatic, effect of inulin and glycine on, 1937, 119: 291.

hyperthyroidism and, 1936, 117: 6.

hypophysis and, 1935, 112: 493.

hypophysis and, 1937, 118: 15.

hypothalamic lesions and, 1936, 114: 562.

in adrenalectomized animals, 1936, 116: 274.

in hypophysectomized depancreatized dog, 1937, 119: 286.

in pregnancy, 1931, 96: 94.

of diabetic heart, 1936, 114: 273.

of heart, 1930, 94: 630.

of hypophysectomized rats, effects of cortico-adrenal extracts on, 1937, 119:

of mammalian heart, 1933, 103: 712.

ventricular fibrillation and, 1933, 105; 246.

Carbohydrate mobilization, 1937, 120: 222.

Carbohydrate oxidation in man, 1937, 119: 403.

Carbohydrate relationships, maternal and fetal, in opossum, 1933, 105: 12.

Carbohydrate reserves of adrenalectomized rats, effect of pitressin and pituitrin on, 1931, 99: 253.

Carbohydrate utilization by depancreatized animal, 1934, 107: 183.

during activity in isolated frogs' muscles, 1935, 113: 47.

in aerobic muscular contraction, 1935, 112: 294.

in exercise, 1934, 108: 203.

Carbohydrates and lipids in perfused liver, 1933, 103: 79.

ingested, gastric motor inhibition from, 1934, 109: 133.

lipids and proteins, synthesis of, 1932, 101: 75.

of submaxillary glands, 1930, 93: 568.

Carbon dioxide, alveolar, variations in, during hunger, 1937, 119: 7.

and cerebrospinal fluid, oxygen and, 1932, 99: 570.

and oxygen, rôle of, in regulation of intrauterine respiratory movements, 1937, 119: 153.

and temperature regulation in oxygen deficiency, 1937, 120: 190.

and visual intensity discrimination, 1936, 117: 75.

effect of, on nerve, 1930, 93: 318.

effect of, on respiratory activity, 1934, 109: 29.

effects of, on urine formation and glomerular blood flow, 1935, 111:64.

Carbon dioxide content, oxygen and, of normal human blood, 1937, 118: 225.

Carbon monoxide, effect of, on medullated nerve, 1930, 95: 650.

effect of, on recovery of frog skeletal muscle, 1935, 113: 69.

effect of, on tissue respiration, 1934, 107: 85.

stimulation of endogenous respiration of bakers' yeast by, 1936, 116: 149.

Carbon monoxide poisoning, acute, blood pressure in, 1937, 120: 91.

Carbonic anhydrase, distribution of, in invertebrates, 1936, 116: 130.

in marine invertebrates, 1937, 119: 308.

Carboxyhemoglobin, oxy- and, of blood and musele, 1933, 103: 75.

Cardiac and respiratory rhythms, comparison of, 1933, 106: 204.

See Heart.

See Ventricle.

Cardiac activity and coronary circulation, 1935, 113: 361. in rat. 1935, 113: 30.

Cardiac blood flow and ventricular alternation, 1936, 114: 407.

Cardiac changes after coronary occlusion, 1934, 109: 403. during progressive hypothermia, 1937, 118: 71.

Cardiac contraction, coronary occlusion and, 1935, 112: 351.

Cardiac coronary circulation, 1936, 116: 88.

Cardiac dilatation, acute, produced by vagal stimulation, influence of pericardium on, 1930, 93: 695.

acute, produced by vagal stimulation, influence of pericardium on, 1930, 94: 162.

produced by anoxemia, effect of digitalis on, 1934, 109: 106.

Cardiac effects of monoiodoacetic acid and sodium cyanide, 1934, 110: 56.

Cardiac functional activity, factors in, 1934, 108: 265.

Cardiac ganglion on Limulus, pace maker of, 1930, 93: 178.

Cardiac hypertrophy, 1930, 93: 647.

Cardiac impulse, factors in block of, 1934, 110: 376.

Cardiac inhibition, oxygen consumption during, 1934, 109: 286. under anaerobic conditions, 1935, 111: 649.

Cardiac lesions, electrocardiographic study of, 1935, 111: 382.

Cardiac massage followed by countershock in revival of mammalian ventricles from fibrillation due to coronary occlusion, 1936, 116: 161.

Cardiac muscle, absorption of lactic acid by, 1931, 98: 244.

bound water in, in relation to ventricular fibrillation, 1934, 110: 485.

electrical and mechanical response of, 1931, 98: 318.

epinephrin and pressure on, 1931, 96: 657.

explanted, response of, to thyroxine, 1932, 100: 162.

importance of force exerted by, on blood flow in coronary vessels, 1934, 109: 61. potassium and all-or-none response of, 1935, 113: 560.

pressure and dynamics of, 1931, 97: 508.

pressure-tension-temperature relation in, 1934, 109: 16.

subthreshold electrical currents and, 1932, 100: 671.

work done and energy liberated by, 1933, 103: 400.

Cardiac muscle lesions in monkey, 1935, 113: 111.

Cardiac nerves, effect of, on ventricular fibrillation in cat, 1936, 115: 507. fiber potentials in, 1931, 98: 220.

Cardiac output, acetylene method of determining, 1932, 100: 587.

and posture, 1937, 119: 412.

before and after meals, 1936, 116: 551.

blood pressure and, effect of carbon are radiation on, 1936, 114: 594.

calculation of, 1935, 113: 312.

effect of menstrual cycle on, 1931, 96: 1.

effect of posture and rest on, 1935, 112: 705.

effect of posture on, 1937, 120: 329.

effect of respiration on, 1933, 104: 358.

effects of meals on, estimated by blood pressure changes and by acetylene, 1936, 116: 9.

estimation of, from blood pressure measurements, 1934, 109: 6.

in experimental mitral stenosis, 1931, 97: 405.

in hyperventilation, 1933, 104: 142.

in man, 1930, 95: 263, 274.

in man, 1933, 105: 28.

in man, 1934, 109: 666.

in man, 1936, 116: 495.

in man, method for determination of, 1936, 116: 35.

in mild exercise, 1931, 96: 8.

in normal men, 1931, 96: 228.

in the standing position, 1936, 115: 268.

mean circulation time, total blood volume and heart-lung blood volume under physiological and pathological conditions, 1931, 97: 528.

of man, 1930, 93: 19, 116, 536, 653.

of man, 1930, 94: 287.

of man, 1931, 96: 1, 8.

relation of changes in blood-flow to, 1929, 91: 115.

posture and, 1935, 113: 117.

Cardiac outputs above basal value, validity of Grollman method for, 1935, 113: 118.

Cardiac permeability, 1931, 98: 163.

Cardiac Purkinje substance, distribution of, and implications dependent thereon, 1936, 116: 129, 130.

Cardiac rate and oxygen consumption, 1935, 113: 654.

during emotional excitement, 1930, 93: 473.

insulin and, 1931, 96: 311.

interrelations of vagal and accelerator effects on, 1934, 110: 42.

Cardiac reactions, reflex, through phrenic nerves, 1930, 93: 651.

Cardiac reflexes, 1935, 113: 229.

central summation of, 1934, 107: 293.

Cardiac respiration, inhibition of, after dinitrophenol, 1935, 111: 196.

Cardiac rigor, dietary factors influencing, 1937, 118: 423.

Cardiac surface excitation, sequence of, 1937, 118: 333.

Cardiac sympathetic centers, activity of, 1936, 117: 237.

Cardiac tissue, embryonic, response of, to epinephrine and acetylcholine, 1931, 97: 271.

Cardiac tonus, vagal control of, 1931, 98: 585.

Cardiac ventricle, time relations of monophasic action potentials from, 1936, 116: 162.

Cardiac ventricular rhythms in cats induced by inhalation of petroleum ether, effect of cardiac sympathetics and adrenalin on, 1936, 116: 111.

Cardiac ventricular tonus, 1936, 116: 86.

Cardiac volume, cinematography in study of, 1930, 94: 641.

movements of ventricular base and, 1932, 102: 559.

Cardiac work, decreased, in relief of angina pectoris by ablation of thyroid, 1934, 109: 11.

Cardio-accelerator fibers in vagosympathetic trunk of dog, 1937, 119: 345.

Cardio-inhibition, vagal, 1937, 119: 318.

Cardio-inhibitory mechanism, sex and seasonal variations in excitability of, 1930, 95: 242.

Cardiovascular activity, cerebral cortical influence on, 1936, 117: 411.

Cardiovascular carotid sinus reflex, 1936, 115: 249.

Cardio-vascular changes in cats during convulsions following section of vagi and stellates, 1931, 97: 513.

Cardiovascular reactions to anoxemia, 1930, 93: 19.

to temperature changes, 1930, 95: 263.

Cardiovascular response to posture, temperature and, 1932, 100: 383.

from

dium

), 94:

: 61.

ene.

Cardiovascular responses to postural change, 1933, 105: 12.

Cardio-vascular responses of pre-adolescent boys to exercise, 1936, 114: 473.

Cardiovascular. See Circulation.

See Heart.

Carotene and other pigments in medullated nerve, 1936, 117: 280.

as liver function test, 1937, 119: 288.

in blood serum, liver and feees, photoelectric colorimeter for determination of, 1937, 119: 411.

Carotid arterial anastomoses, vertebral-, 1933, 106: 28.

Carotid body, reflexes from, to respiratory center, 1937, 119: 290.

Carotid gland, stimulation of chemoreceptors in, 1937, 118: 389.

Carotid gland stimulation, differential reflex effect of, 1937, 119: 347.

Carotid sinus and anoxemia in normal dogs, 1933, 105: 487.

and depressor nerve in hypertension, 1935, 110: 513.

function of, 1933, 104: 443.

isolated, pressure receptors in, 1935, 110: 708.

pressoreceptor reflexes from, 1937, 118: 379.

relation of, to heart and respiratory rates, 1933, 105: 36.

relation of, to respiratory failure, 1934, 107: 213.

response of end organs in, 1932, 101: 14.

studies on, 1931, 97: 517.

Carotid sinus denervation, prolonged anoxemia after, 1934, 109: 709.

Carotid sinus nerve in dog, 1935, 113: 28.

Carotid sinus reflex, cardiovascular, 1936, 115: 249.

in primates, bilaterality of, 1935, 113: 66.

Carotid sinus reflexes after sympathectomy, 1937, 120: 195.

to respiratory center, 1932, 102: 94, 119.

Carotid sinus vasomotor reflexes, 1936, 116: 163.

Carotid sinuses and splenic contractions of anoxemia, 1937, 119: 351.

late effects of denervation of, 1935, 112: 488.

Cartilage, tendon and, chloride and base contents of, 1936, 115: 476.

Casein formation during pregnancy, 1933, 103: 643.

Castration and male hormone administration, effects of, on response of rats to barbiturates, 1937, 119: 338.

effect of, on anterior pituitary, 1932, 101: 309.

Castration cells in anterior pituitary, 1932, 101: 239.

Catalase, nerve, 1933, 106: 404.

Catalepsy due to experimental brain lesions, 1932, 101: 690.

Cataleptic symptoms following bilateral cortical lesions, 1937, 119: 213.

Catalysis, heavy metal, in smooth muscle contracture, 1933, 106: 225.

Catalytic activity of inorganic constituent or ash of different organs, 1935, 113: 21.

Cations and nerve functions, 1933, 104: 216.

Cell, micro-conductance, 1933, 105: 98.

photosensitive, as drop recorder and time marker, 1933, 105: 82.

Cell content of dog lymph, 1931, 97: 52.

Cell count, white, in adrenalectomized rats, 1934, 109: 97.

Cell oxidation, bioelectric potentials and velocity of, 1934, 109: 71.

Cells, nucleated, in bone marrow of rat, 1936, 117: 662.

of inflammatory exudate and its pH, 1934, 109: 73.

research into physical nature of, 1931, 97: 516.

Central control of shivering and of heat regulation, 1930, 93: 227.

Central inhibitory mechanism, investigation of, 1933, 103: 131.

Centripetal visceral pathways, 1937, 120: 587.

Cephalin and blood coagulation, 1931, 97: 74.

Cerebellar conditioned reflexes, 1937, 119: 277.

Cerebellar involvements, dogs and monkeys with, 1936, 116: 91.

Cerebellar, neo-, cortex, extirpation of, 1937, 118: 720

Cerebellar potentials, thalamic, cerebral and, 1937, 118: 569.

Cerebellar stimulation, rôle of tonic reflexes in postural reactions to, 1936, 116: 106.

spinal path for responses to, 1936, 117: 267.

Cerebellar symptoms from unsymmetrical lesions after median longitudinal section of the decussations of Forel and of the superior brachium, 1936, 116: 121.

Cerebellum and habituation of after-nystagmus, 1937, 120: 350.

chronic effects of nearly total ablation of, 1937, 119: 410. electrical stimulation of interior of, in decerebrate cat, 1936, 117: 261.

hemi-ablation of, 1937, 119: 348.

in cat and monkey, postural reactions to electrical stimulation of interior of, 1936, 116: 69.

in dog, defective development of, 1937, 119: 274.

in monkey, stimulation of interior of, 1935, 112: 329.

in primates, effect of removal of vestibular parts of, 1937, 119: 298.

neocerebellum is non-essential for any functions previously attributed to, 1936, 116: 89.

See Brain.

n of,

to

Cerebral action currents, apparatus for study of, 1934, 107: 305.

Cerebral action potentials after brain lesions, 1936, 114: 692.

Cerebral anemia, calcium and phosphorus of blood serum during, 1933, 105: 23.

Cerebral and cerebellar potentials,—thalamic, 1937, 118: 569.

Cerebral blood flow, human, blood gases and, 1935, 111: 557.

Cerebral control, micturition released from, 1936, 115: 694.

of micturition, 1937, 118: 483.

Cerebral cortex, after discharge due to stimulation, 1937, 119: 358.

autonomic representation in, 1934, 109: 37.

bilateral representation of lower extremity in, 1932, 101: 36.

cardiovascular changes resulting from stimulation of, 1936, 116: 63.

effects of anesthetics on, 1935, 113: 43.

effects of anesthetics on action potentials in, 1936, 116: 577.

electrical activity of, 1937, 119: 186.

electrical potential of, effect of different anesthetics on, 1936, 116: 113.

in monkey and chimpanzee, somato-sensory functions of, 1937, 119: 394.

in monkeys, periodic fluctuations in motor response to uniform electrical stimulation of, 1936, 116: 79.

inhibition from, 1935, 113: 663.

local stimulatory inactivation of, 1937, 118: 510.

localization, 1932, 101: 3.

regulation of frequency in, 1937, 119: 317.

respiratory alterations from stimulation of, 1936, 115: 261.

rôle of, in diurnal sleep in dogs, 1931, 97: 537.

shivering and, 1935, 113: 3.

somatic sensory function of, in monkey and chimpanzee, 1936, 116: 134.

units of electrical activity in, 1937, 119: 309.

Cerebral cortex control of visual and labyrinthine placing reactions, 1933, 105: 2.

Cerebral cortical control of placing and hopping reactions in Macaca mulatta, 1936. 116: 165

Cerebral cortical influence on cardiovascular activity, 1936, 117: 411.

Cerebral cortical representation of the vasomotor system, 1937, 118: 641.

Cerebral function in learning, 1933, 104: 51.

Cerebral localization, 1933, 105: 162.

Cerebral motor cortex, electrical stimulation of, 1937, 120: 42.

local stimulatory inactivation in, 1935, 113: 97.

Cerebral reaction to optic nerve stimulation, 1932, 101: 4.

Cerebral. See Brain.

Cerebrospinal elasticity in a chimpanzee, 1933, 105: 571.

in cat and macaque, 1932, 101: 668.

Cerebrospinal fluid, absorbed, bromide in, 1934, 109: 193.

absorption of, 1935, 114: 40.

and aqueous humor, reformation of, 1933, 103: 351.

and elasticity of dural sac, 1932, 101: 292.

and intralabyrinthine pressure, 1932, 101: 396. .

as central excitant, 1937, 120: 392.

calcium of, 1933, 103: 455.

effect of dislocation of, on its pressure, 1932, 100: 246.

gases and barometric pressure, 1934, 107: 164.

glucose ratio of blood and, 1933, 103: 613.

in normal dogs, 1932, 99: 626.

oxygen, carbon dioxide and, 1932, 99: 570.

oxytocic activity of, 1933, 103: 244.

rate of circulation of, 1933, 106: 201.

rate of formation of, 1932, 101: 697.

reducing power of, 1935, 112: 97.

water transfer into, 1933, 106: 170.

Cerebrospinal fluid pressure, hypertonic sucrose and, 1935, 112: 82.

use of hypertonic sucrose solution to reduce, 934, 109: 17.

Cerebrospinal pressure and positional alterations of body, 1933, 104: 681.

Cerebrospinal system, transmission of pressure within, 1933, 105: 50.

Cerebrum in monkeys, electrical excitability of premotor area of, as correlated with cytoarchitecture, 1933, 105: 14.

Cervical sympathetic, relation of, to energy metabolism, 1932, 102: 249.

Cervical sympathetic fibers, fatigue phenomena in, 1932, 102: 87.

Ch'an, Su, action of principles of, 1931, 97: 512.

Chemical changes in contracting mammalian muscle, 1933, 105: 687.

Chemoreceptors in carotid gland, stimulation of, 1937, 118: 389.

Chimpanzee, diagnosis of pregnancy in, 1935, 110: 597.

theelin of urine and placenta of, 1935, 110: 593.

upper limit of hearing in, 1935, 112: 109.

Chloride and alkali content of duodenal secretions and gastric acidity and emptying time, 1936, 116: 337.

and base contents of tendon and cartilage, 1936, 115: 476.

and sugar, metabolism of, hypothalamus and, 1935, 112: 504.

Chloride absorption from bile-free gall bladder, 1932, 99: 638.

by intestinal epithelium, 1936, 114: 676, 681.

in amphibian renal tubule, 1937, 118: 121.

Chloride depletion, sodium and, after adrenalectomy, 1936, 116: 430.

Chloride excretion, water and, of decerebrate cats, 1935, 112: 386.

1936,

ith

V-

Chloride movement against diffusion gradient between intestine and blood, 1935, 113: 134.

Chlorides of edema fluid from superficial burn, blood chlorides and, 1930, 95: 334.

Chloroform poisoning, bleeding tendency in, 1937, 119: 418.

Cholagogue, true, secretin is, 1937, 120: 336.

Cholecystokinin, action of, 1929, 91: 329.

effect of, on sphincter of Oddi, 1935, 113: 175.

in intestine, 1930, 94: 285.

preparation of, 1929, 91: 336.

response of isolated gall bladder to, 1933, 103: 275.

Choledocho-duodenal mechanism, effect of cholecystokinin on, 1935, 113: 175.

Cholesterol, absorption of bile salts and, from bile-free gall bladder, 1932, 99: 656.
blood, in thyroid disturbances, 1933, 103: 1.

Cholesterolemia, hyper-, emotional, 1931, 98: 156.

Choline in diet, effects of, 1935, 113: 11.

Choline oxidizing enzyme, 1936, 116: 159.

Cholinergic substances, adrenergic and, liberation of, in submaxillary gland, 1934, 109: 375.

Chorda tympani, submaxillary gland secretion after section of, 1937, 120: 246.

Chronaxie, 1930, 93: 631.

and refractory period of nerve, effect of cooling on, 1930, 93: 646.

as a measure of excitability, 1934, 107: 275.

in motor nerves, 1933, 106: 721.

nerve-muscle, and Phi Gamma curve, 1932, 100: 564.

of nerve, temperature and, 1930, 95: 139.

of vagus control of turtle heart, 1930, 94: 101.

of vagus nerve after thyroparathyroidectomy and methyl guanidine sulphate administration, 1930, 93: 699.

the, strychnine and, 1936, 117: 638.

Chronaximeter, electron tube, 1934, 109: 100.

Chronotropic function of cardiac vagus nerve, 1937, 120: 571.

Chorold, chemical analysis of, 1933, 103: 270.

Cicada extract, physiological effect of, 1937, 119: 368.

Ciliated epithelium, neurogenous activation of, 1935, 112: 468.

Cinobufagin and cinobufotoxin, active grouping in molecules of, 1931, 97: 512.

Circulation and acute experimental hypervolemia, 1933, 105: 40.

and respiration in acute compressed-air illness, 1936, 114: 526.

capillary, Poiseuille's law and, 1933, 103: 432.

coronary, 1931, 98: 244.

coronary, 1933, 103: 712.

coronary, 1933, 106: 9, 597.

coronary, effect of glucose injections on, 1933, 105: 92.

cross, experiments in, 1931, 96: 146.

effect of elasticity on, 1932, 101: 376.

effect of pericardiostomy on mechanics of, 1930, 93: 632.

effect of temperature changes on, 1935, 113: 9.

effect of temperature on oxygen exchange and, 1937, 119: 93.

effects of ascaris extract on, 1929, 91: 143.

fetal, in mammals, 1930, 91: 637.

in arteriosclerosis, influence of elastic factor in, 1931, 96: 426.

in experimental mitral stenosis, 1931, 97: 405.

in fetal albino rat, 1932, 101: 304.

CO

C

in islands of Langerhans, 1930, 95: 186.

influence of gravity on, 1933, 105: 42.

liver, vasomotor control of, 1930, 95: 20.

measured with ethyl iodide, 1930, 92: 707.

mechanical interference with, factor in traumatic shock, 1930, 94: 529.

of cerebrospinal fluid, rate of, 1933, 106: 201.

of extremity, thermal changes in obstruction to, 1935, 113: 12.

of medulla oblongata, intrinsic regulation of, 1934, 109: 92.

peripheral, during experimental fever, 1934, 110: 448.

pulmonary, dynamics of, 1937, 120: 624.

regulation of, 1932, 102: 551.

regulation of, in hypothalamus, 1934, 110: 137.

regulation of, in parietal cortex of cat, 1935, 113: 115.

response of, to adrenalin in rat, 1932, 101: 105.

studies on, 1932, 99: 534.

systemic, amount and velocity of blood traversing shortest paths of, 1933, 104:650.

systemic, velocity and amount of blood flowing through shorter paths of, 1930, 93: 690.

Circulation rate, calculation of, 1935, 113: 312.

Circulation schema, changes occurring in, when failure of heart is simulated, 1936, 116: 150

Circulation time before and during digestion, 1934, 109: 96.

determination of, 1930, 94: 564.

Circulation. See Blood.

See Cardiovascular.

Circulations, carotid and cerebral, antagonism between, with respect to control of heat regulating centers, 1930, 93: 661.

Circulatory adjustments to moderate exercise, 1932, 101: 494.

Circulatory and visual effects of oxygen at 3 atmospheres pressure, 1936, 114: 436.

Circulatory changes during radiothermia, 1932, 100: 614.

from curtailed blood supply to brain, 1930, 95: 371, 382.

in chronic aortic regurgitation, 1934, 107: 414.

peripheral, bloodless method for continuous recording of, 1936, 116: 111. with insulin hypoglycemia, 1935, 111: 440.

Circulatory control of urine formation, 1936, 117: 366.

Circulatory effects of acute hypervolemia, 1933, 104: 423.

of CO2 and forced breathing, 1930, 94: 287.

Circulatory factors in menstrual cycle, 1931, 96: 1.

Circulatory failure of guanidine intoxication, 1937, 119: 376.

Circulatory phenomena disclosed by ergotoxine, 1933, 105: 373.

Circulatory rate and absorption in gut, 1934, 108: 469.

Circulatory reaction to gravity in healthy young women, 1930, 93: 693.

to gravity in healthy young women, 1930, 94: 507.

Circulatory regulation, intrinsic, in parietal cortex, 1936, 114: 572.

Circulatory response to environmental temperature, 1935, 113: 181.

Circulatory responses to acetylchlorine, 1934, 109: 47.

to forced respiration, 1930, 91: 390.

Circulatory system, paradoxical effect of cyanide on, 1937, 119: 749.

Cisternal, intra-, injection of kaolin, hypertension and, 1935, 113: 285.

Citric acid in urine and body fluids, 1934, 107: 471.

CO, action of, on respiration of embryonic cells, 1934, 109: 11.

burning of, by muscle, 1932, 102: 393.

effect of, on embryonic fish heart, 1934, 109: 36, effect of, on recovery of muscle, 1936, 114: 625. stimulation of muscle respiration by, 1932, 102: 379.

CO poisoning, methylene blue in HCN and, 1932, 102: 145.

from illuminating gas, 1935, 110: 611.

methylene blue as antidote to, 1933, **104:** 139.

CO₂, alveolar, posture and alterations of, 1937, 118: 435. and forced breathing, circulatory effects of, 1930, 94: 287. and respiration, hydrochloric acid, 1930, 94: 402.

effect of, on action potential of nerve fibers, 1931, 96: 613.

effect of, on knee jerk, 1932, 102: 305.

of brain during altered oxidations, 1930, 93: 528.

rôle of, in counteracting effects of anoxemia on brain stem and cortex, 1936, 116: 57.

rôle of, in symptoms of oxygen poisoning, 1934, 108: 652.

CO2 capacity of body, 1930, 93: 422.

933,

930.

936,

of

CO₂ combining power and pH of cervical lymph, 1935, 112: 699.

CO2 dissociation curve of frog heart muscle, 1930, 93: 190.

CO₂ tensions, O₂ and, in human tissues, 1936, 115: 38.

Coagulant, stronger, for use with heparin-plasma, 1930, 93: 665.

Coagulation, alterations of platelets as factor in, 1934, 108: 670. and sugar and calcium of blood, 1932, 100: 40.

blood, activation of, 1936, 117: 587.

blood, in experimental hemorrhagic disease, 1937, 118: 260.

blood, intermediate calcium complex in, 1937, 119: 755.

blood, tissue extracts and, 1937, 118: 633.

conductivity of blood during, 1930, 94: 531.

effect of foreign tissue extracts on, 1935, 114: 1.

effect of heparin on, in tissue extracts, 1932, 101: 64.

intravascular, 1936, 116: 71.

of blood, certain sulfur compounds and, 1936, 117: 92.

of blood, chemical reactions in, 1931, 97: 74.

of blood, factors in, 1930, 95: 1.

of blood in sweet clover disease of cattle, 1931, 96: 413.

of blood, influence of urea on, 1931, 96: 509.

of dog heparin plasma, foreign sera and, 1935, 114: 19.

tissue extracts and blood sera in, 1931, 97: 233.

Coagulation defect in peptone shock, 1936, 116: 535.

Coagulation laminar thermo-, effects of, on action potentials of cerebral cortex, 1936, 114: 692.

Coagulation reflex pattern in spinal cat, 1932, 101: 30.

Coagulation time of blood of adrenalectomized rats, 1931, 96: 305.

of blood, relation of calcium to, 1937, 118: 703.

Coagulation. See Blood.

Coagulative, anti-, action of organic acids, of heparin and diethylamine, 1937, 119:80.

Cobalt, erythrocyte reaction of dog to, 1937, 118: 207.

hematopoietic action of, 1936, 114: 414.

Cocaine sensitization of smooth muscle to adrenin, 1931, 98: 186.

Cochlea and auditory nerve, electrical potentials of, 1937, 120: 666.

combination tones in electrical activity of, 1937, 119: 296.

electric response of, 1934, 107: 311.

electrical response of, 1935, 113: 40.

mapping the, 1937, 119: 292.

relation of auditory action potentials to electrical response of, 1934, 109: 28.

Cochlear function, effect on, of intense tonal stimulation, 1935, 113: 32.

Cochlear lesions, effect of, on cochlear potentials and middle ear muscle reflexes, 1936, 116: 93.

Cochlear potentials, origin of, 1937, 119: 305.

Cochlear response as index to hearing, 1936, 116: 524.

depression of, in order of frequency, 1936, 116: 51.

electrical, of cats, 1936, 117: 24.

to sound, eighth nerve and, 1934, 109: 704.

Coeliac ganglion cells of rabbits, functional behavior of, 1936, 117: 514.

Coeliac ganglionectomy, effect of, on gastric acidity, 1933, 105: 399.

effect of, on sugar tolerance, 1932, 102: 614.

Cold, block of spinal cord produced by, 1931, 98: 399.

mechanism of stimulation of end-organs for, 1930, 93: 632.

nutritional anemia and resistance to, 1937, 118: 549.

resistance to, in hypophysectomized rats, 1933, 104: 489.

Colloid osmotic pressure of dog blood and lymph, 1931, 98: 70.

Colloids, osmotic pressure of, 1932, 101: 409.

Colon, absorption of glucose by, 1933, 105: 15, 187.

influence of lumbar colonic nerves on, 1930, 94: 501.

motility of, after ileostomy, 1935, 113: 14.

response of, to sympathetic stimuli, 1934, 109: 257.

variation in water content of fecal material along, 1933, 105: 91.

water content of fecal material in, 1935, 112: 559.

Colonic motility, effect of exercise on, 1931, 99: 52.

effect of oil enemas on, 1937, 118: 775.

in dog, effect of morphine on, 1937, 119: 414.

influence of balloon technique on, 1931, 99: 87.

influence of filling stomach on, 1937, 119: 312.

Colonic mucosa, exteriorized, muscular activity under, 1934, 110: 123.

Colorimeter, simplified photoelectric, using light filters, 1936, 116: 45.

Coma from intravenous injection of barbiturates, antidotal effect of picrotoxin in, 1935, 113: 89.

Comb, relation of, to growth of wattles and testes, 1933, 103: 647.

Combs and testes, effect of confinement on growth of, 1932, 102: 271.

Compensatory pause, 1931, 97: 676.

Compressed-air illness, acute, 1936, 114: 526.

Conditioned reflex, reward and response to pain in, 1933, 106: 71.

Conductivity of blood, electrical, effect of motion on, 1937, 118: 708.

Conductivity cell with capacity of a few tenths of a cubic centimeter, 1936, 116:

Conjunctiva, chemical analysis of, 1933, 103: 270.

Connective tissue, x-ray diffraction patterns in, 1931, 98: 328.

Contact breaker, electrically driven, 1933, 105: 36.

Contraction, after-, 1937, 119: 549.

electrical activity of muscle during, 1935, 114: 90.

muscle, after tetanus, 1937, 119: 463.

Contraction frequency and energy expenditure, in striated muscle, 1930, 95: 121.

Contracture, acetylcholine, of denervated muscle, 1937, 120: 757.

vasodilatation and, 1930, 92: 679.

Contractures, conducted, in single muscle fibers, 1933, 103: 237.

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Convection, radiation and, by partitional calorimetry, 1936, 116: 669.

Convulsant agents and ligation of head arteries in cats, 1932, 99: 521.

Convulsions, combined action of adrenalin or caffeine and absinthe on, 1930, 93: 679.

experimental, effect of ketogenic diet on, 1932, 101: 89.

experimental, in rat, 1932, 101: 22.

mechanism of, in insulin hypoglycemia, 1937, 118: 174.

respiratory and vascular changes during, 1931, 97: 92.

susceptibility of cats to, after median longitudinal incision of mid-brain or medulla, 1930, 93: 678.

Coördirectograph, 1936, 116: 64.

Copper, augmented action of pituitary extracts by, 1936, 117: 68.

dietary, in iron utilization, 1937, 120: 423.

effect of, on rate of disintegration of nucleated and non-nucleated red blood cells, 1934, 109: 111.

in diet and disintegration of erythrocytes, 1936, 116: 638.

stimulating effect of, on chlorophyl formation, 1934, 109: 111.

Copper reducing substances in serum and urine of dogs, effects of posterior-lobe pituitary preparations on, 1934, 109: 73.

Cord potentials, 1934, 108: 295.

in spinal cat, 1937, 118: 411.

Corneal reflex and vestibular nystagmus, 1933, 103: 704.

Cornea-reflex, mechanical threshold of, 1930, 94: 235.

Cornea-retinal potential in recording eye movements, 1936, 114: 423.

Coronary artery, anterior, ventricular response to ligation of, 1932, 100: 629.

eircumflex, blood flow in, 1936, 117: 271. right, phasic blood flow in, 1937, 119: 580.

Coronary blood flow in aortic stenosis, etc., 1936, 115: 94.

phasic changes in, 1935, 112: 627.

phasic, in hypotension, 1937, 119: 321.

reflex control of, 1935, 113: 399.

Coronary circulation, 1931, 98: 244.

1933, 103: 712.

1933, 106: 9, 597.

in dog, efferent pathways and vasomotor control of, 1931, 97: 526.

lactic acid and, 1931, 97: 546.

Coronary dilator neurones in dog, cervical pathways for, 1935, 113: 53.

Coronary flow, attempts to evaluate changes of, 1935, 113: 52.

during aortic insufficiency, 1934, 109: 43.

in dog, influence of adrenalin on, 1931, 97: 526.

in hypertension, 1936, 114: 609.

mean, effects of aortic insufficiency on, 1934, 109: 44.

methods for studying, with heart in situ, 1933, 105: 25.

phasic variations in, 1934, 109: 44.

phasic variations of, 1933, 105: 25.

Coronary occlusion and myocardial contraction, 1935, 112: 351.

chemical changes in heart after, 1934, 109: 403.

effect of, on myocardial contraction, 1935, 113: 129.

ventricular action currents after, 1935, 113: 683.

Coronary ramus, peripheral pressure pulses in, 1935, 113: 55.

Coronary resistance, determinants of, 1935, 112: 362.

Coronary responses associated with voluntary neuro-muscular activity, 1937, 119: 320.

Coronary sinus outflow, 1937, 118: 38.

Coronary vessel distribution to ventricular muscle bands, 1935, 113: 111.

Coronary vessels, denervated, effect of drugs on, 1935, 113: 136.

innervation of, 1935, 113: 71.

nerve control of, 1935, 113: 361.

Corpora lutea, induced, functional capacity of, in infantile rat, 1933, 104: 693. produced by intra-follicular injections of urine, 1932, 101: 34. relation of, to ovulation, 1932, 101: 545.

Corpora lutea extract and uterine motility, 1932, 101: 86.

Corpus luteum, 1929, 91: 14.

1930, 92: 174, 612.

1932, 100: 650.

activity of, 1930, 93: 671.

blood changes after administration of, 1930, 94: 586.

hysterectomy and life-span of, 1933, 103: 600.

non-effect of, on lactation, 1930, 95: 43.

prolongation of pregnancy by, 1930, 91: 690.

Corpus luteum hormone relationship, follicular-, 1932, 100: 111.

Corpus luteum hormones, follicular and, relation of, to progestational proliferation, 1930, 92: 574.

Cortex, adrenal, relation of, to reproduction and lactation, 1936, 115: 637.

adrenal, relation of, to vitamin C, 1936, 117: 553.

and labyrinth, interaction of, 1934, 109: 693.

and sense organs, rôle of, in mating activity, 1937, 120: 544.

cat's cerebral, extrapyramidal activity of, 1936, 116: 155.

cerebral, electrical potential of, in relation to anesthesia, consciousness and unconsciousness, 1936, 116: 19.

cerebral, inhibition from, 1935, 113: 663.

cerebral motor, electrical stimulation of, 1937, 120: 42.

dog's sensori-motor areas of, 1931, 99: 1.

effect of lesions of, on grasp reflex, 1932, 101: 87.

in rabbit, electrically excitable areas of, and placing and hopping reactions, 1936, 116: 17.

influence of extirpation of motor and premotor areas of, on skilled movements in primates, 1933, 105: 58.

monkey, tactile sensibility in, 1937, 119: 372.

motor and premotor, in monkey, function of, 1937, 119: 424.

motor disturbances following lesions of, 1930, 95: 584.

occipital, postoperative effects of removal of, on visual intensity discrimination in cat, 1936, 116: 145.

occipital, pupillary inequality and lesions of, 1937, 120: 144.

optic, visual and integrating mechanisms of, 1937, 120: 604.

parietal, intrinsic circulatory regulation in, 1936, 114: 572.

relation of motor and premotor areas of, to spasticity and postural reflexes in primates, 1933, 105: 35.

relation of, to organs of vegetative system, 1932, 101:96.

sensori-motor, and thalamus opticus, 1937, 119: 265.

See Adrenal.

See Brain.

Cortical ablations, postural deficiencies after, 1931, 97: 503.

Cortical action potentials after strychnine, 1933, 103: 203.

Cortical activity, flexion reflex time in relation to, 1934, 109: 296.

Cortical Cortical Cortical Cortical cat:

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Cortical extracts, adrenal, bioassay of, 1936, 117: 678.

Cortical hormone, suprarenal, and nitrogen metabolism, 1935, 113: 335.

Cortical influence on cardiovascular activity, 1936, 117: 411.

Cortical lesions, bilateral, righting reflexes after, 1937, 120: 225. cataleptic symptoms following, 1937, 119: 213.

Cortical localization, 1933, 105: 162.

Cortical potentials, source of, 1936, 116: 115.

Cortical processes, effect of inspired air on, 1935, 113: 125.

Cortical representation of the vasomotor system, 1937, 118: 641.

Cortical response, retinal stimulation and, 1935, 110: 666.

to optic nerve stimulation, 1933, 103: 159.

Cortical tissue, growth of, in rat, 1932, 101: 662.

Cortical. See Brain.

Cortico-adrenal extract and blood cells, 1932, 102: 699.

and glycolysis, 1932, 102: 693.

effect on energy output, 1932, 102: 707.

purified, action of, 1937, 120: 213.

Cortico-adrenal hormone, 1931, 97: 507

Corticoadrenal insufficiency, 1937, 118: 620.

Corticospinal fibres of premotor area, 1934, 109: 54.

Cortin and blood constituents after adrenalectomy, 1937, 118: 302.
and work capacity after adrenalectomy, 1936, 116: 622.

as a general tissue hormone, 1932, 101: 50.

rat in assay of, 1937, 119: 293.

relation of, to maintenance of body temperature, 1931, 98: 674.

Creatine and creatinine, effect of glycine on excretion of, 1935, 111: 596. from proteins and amino acids, 1935, 113: 647. in nerve and muscle, 1931, 97: 523.

Creatine clearance in dog and man, 1934, 109: 532.

in phlorizinized dog, 1934, 109: 542.

Creatine excretion and carbohydrate metabolism, 1936, 115: 364. in marine teleost, 1937, 119: 385.

Creatinine, clearance of, and of various sugars, 1933, 106: 16.

distribution of, in blood, 1935, 113: 629.

effect of glycine on excretion of creatine and, 1935, 111: 596.

exogenous, filtration and secretion of, 1932, 102: 534.

exogenous, filtration and secretion of, 1933, 104: 677.

intravenously injected, elimination of, 1935, 114: 240.

urea and, clearances on mixed diet, 1931, 98: 572.

xylose and urea, inulin, excretion of, in rabbit, 1935, 113: 354.

Creatinine clearance in dogs, 1934, 108: 99.

urea and, in dog, 1931, 99: 101.

Creatinine excretion by dog, inulin and, 1936, 114: 362.

in urine, relation of rate of, to plasma concentration, 1930, 94: 220.

Cretinism, experimental, pituitary in, 1936, 117: 518.

Crop-gland, reaction of, to pituitary hormone, 1931, 97: 617.

"Crop-milk" of pigeons, nutritive properties of, 1932, 102: 285.

Crossed respiratory impulses to phrenic, 1936, 117: 495.

Crotalin and histamine, physiologic action of, 1930, 92: 705.
immunity to, 1931, 97: 180.

physiology of, 1931, 97: 22, 26.

Cryptorchidism, treatment of, with extract of human placenta, 1936, 116: 81.

Crystalline lens, cause of calcification of, 1937, 119: 283.

Crystograph ink writer, 1937, 119: 381.

Curare, antagonism of alkali to, 1930, 91: 563.

decurarizing substances, 1936, 115: 53.

Curare paralysis of tongue, recovery from, effect of nerve stimulation on, 1932, 100: 569.

Curarization, fatigue and Wedensky inhibition, 1937, 119: 236.

Currents, linearly rising, as stimuli, 1935, 111: 515.

minute direct, amplifier for, 1935, 113: 98. Cutaneous respiration in man, 1931, 98: 93.

Cutaneous sensations, spinal irradiation and, 1931, 97: 491.

spinal irradiation and, 1933, 104: 537. Cutaneous sensitivity, use of von Frey hairs for studying, 1934, 109: 78.

Cyanide and pulmonary ventilation, 1933, 105: 311.

etc., effect of, on oxygen uptake of tissues, 1934, **108**: 80. paradoxical effect of, on circulatory system, 1937, **119**: 749.

Cyanides, effect of, on medullated nerves, 1931, 97: 302.

Cysteic acid, absorption of cystine, methionine and, from intestinal loops, 1936, 115: 188.

Cystine, methionine and cysteic acid, absorption of, from intestinal loops, 1936, 115: 188.

D

Dark adaptation, factors which influence, 1937, 120: 689.

in insect, Dineutes assimilis, 1936, 116: 28.

Darkness, effect of, on thyroid gland of rat, 1935, 113: 659.

Deafferentation and decerebrate rigidity, 1931, 98: 47.

Death in cells killed by high pressures, 1937, 119: 362.

thermic effect of, 1930, 95: 473.

Decapitation, muscle and nerve reactions after, 1932, 102: 138.

Decerebrate and chronic spinal cats, reactions to irritating arterial injections in, 1934, 109: 76.

Decerebrate cats, water and chloride excretion of, 1935, 112: 386.

Decerebrate rigidity and other reflexes, appearance of, in young white rats, 1930, 93: 694.

in newborn rabbits, relation of brain transection to, 1931, 97: 397.

Decerebration, chronic, 1932, 101: 5.

embolic, with lycopodium and lampblack mixture, 1930, **93**: 645. muscle and nerve reactions after, 1932, **102**: 138.

studies in, 1930, 92: 625.

Decerebration studies, 1931, 98: 47.

Deciduomata, artificial, production of, 1929, 91: 14.

in immature rats, pregnancy urine and, 1933, 104: 693.

Decompression of divers, helium gas in, 1937, 120: 712.

Decorticate and decerebrate rigidities in the cat, 1934, 109: 5.

Defecation in dogs, comparative efficiency of oil and soap enemas in eliciting, 1937, 119: 258.

Dehydration by various means, 1930, 95: 348, 364.

effect of, on adrenal secretion, 1933, 104: 628.

in hyperthermia, 1932, 101: 78.

reflex salivary response in, 1932, 100: 559.

salivary flow during, 1931, 97: 107.

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Dehydrocholic acid, physiologic action of, 1932, 101: 268.

Denervated heart, emotional acceleration of, 1931, 96: 377.

Denervated skeletal muscle, changes in, 1937, 118: 580. Denervated structures, sensitization of, 1936, 116: 25.

Denervation, changes in skeletal muscle of rat after, 1933, 104: 379.

hypersensitivity produced by, 1937, 119: 422.

of carotid sinuses, late effects of, 1935, 112: 488.

preganglionic, sensitization of a sympathetic ganglion by, 1936, 116: 408.

renal, effects of, 1934, 110: 392.

00.

sensitization of inhibited structures by, 1937, 120: 179.

sympathetic, of genital organs, impotence of male rodent after, 1931, 96: 321.

Dental caries and saliva and blood serum of children, 1933, 105: 436.

chemical composition of saliva and, 1936, 117: 529.

Deparcreatized animal, carbohydrate utilization by, 1934, 107: 183.

Deparcreatized dog, lecithin in diet of, 1931, 98: 74.

substitution of lecithin for raw pancreas in diet of, 1930, 93: 657.

Deparcreatized dogs, absorption of calcium lactate, sodium bicarbonate and blood serum by, 1933, 104: 636.

basal insulin requirement of, 1937, 120: 345.

vitamin A content of livers of, 1934, 107: 157.

vitamin A deficiency in, 1933, 103: 458.

Depressor-cardiac reflex after vagotomy, 1935, 110: 602.

Depressor nerve of rabbit, fiber constitution of, 1934, 109: 274.

Depressor nerves, carotid sinuses and, in hypertension, 1935, 110: 513.

Dermatitis, effect on, of heating egg white in diet, 1933, 104: 150.

Deuterium as indicator of fecal fat in absence of bile, 1936, 117: 525.

Dextrose and levulose, relative absorption rates of, 1932, 101: 565.

more easily used than any of the other sugars, 1930, 93: 666.

Dextrose tolerance, rôle of pancreas and liver in, 1934, 109: 155.

Dextrose tolerance curve and liver damage, 1935, 112: 649.

factors determining, 1933, 105: 89.

hypoglycemic phase of, 1934, 110: 4.

increasing toxemic liver damage and, 1935, 113: 98.

Dextrose tolerance curves in absence of insulin, 1936, 114: 648.

Dextrose utilization after evisceration, 1937, 119: 734.

in animals with Eck fistula, 1934, 109: 25.

Diabetes, arbutin, 1937, 119: 374.

dehydration in, 1936, 116: 75.

effects of partial adrenalectomy on, 1934, 109: 89.

experimental, epinephrine output in, 1937, 120: 440.

experimental, influence of adrenal glands on, 1935, 113: 41.

experimental, influence of posterior pituitary extracts on, 1935, 113: 6.

experimental pancreatic, in monkey, 1937, 119: 289.

experimental, treated by x-ray to pituitary and adrenal regions, 1935, 113: 7.

extirpation, pregnancy and lactation in, 1936, 115: 480.

from pancreatectomy, effect of previous hypophysectomy on, 1933, 105:83.

hunger, and use of glucose in fasting dog, 1935, 114: 106.

lactation in, 1933, 106: 716.

pancreatic, and cardiac metabolism, 1936, 114: 273.

pancreatic, calorigenic action of fat in, 1935, 112: 124.

pancreatic, eye reactions in, 1933, 106: 491.

pancreatic, protein metabolism in, 1933, 105: 300.

pancreatic, relation of pancreatic juice to, 1936, 117: 160.
pancreatic, respiratory metabolism of, 1932, 102: 460.
pancreatic, respiratory metabolism of, 1933, 104: 298.
pancreatic, specific dynamic action of protein in, 1936, 115: 419.
phlorhizin and pancreatic, nitrogen-sparing action of glucose in, 1937, 119: 376.
respiratory metabolism of, liver and, 1933, 105: 306.
respiratory quotient of exercise in, 1933, 103: 298.
respiratory quotient of proteins in, 1931, 96: 331.
rôle of anterior pituitary gland in, 1935, 113: 124.
theories of, blood sugar level and sugar utilization and, 1937, 120: 761.

Diabetes insipidus, 1931, 96: 66.

experimental, 1934, **110**: 439. experimental, production of, in cats, 1937, **119**: 305.

experimental thyroidectomy and, 1935, 112: 250.

in cat, effects of thyroidectomy, castration, anterior lobe administration and pregnancy on, 1937, 119: 341.

primacy of polyuria in, 1935, 112: 481. primacy of polyuria in, 1935, 113: 578.

Diabetes mellitus, latent tolerance in, 1932, 101: 41.

Diabetic dogs, synthesis of fat by intestine of, 1935, 114: 132.

Diabetic hyperpyrexia, 1934, 110: 19.

Diabetic urine, blood sugar raising substance in, 1937, 118: 659.

Diabetics, renal, levulose tolerance curves in, 1934, 109: 2.

Diaphragmatic sensation, 1937, 119: 336.

Diastole, possible suction action of ventricle in, 1934, 107: 178.

Diathermy and oxygen consumption of frog muscle, 1932, 99: 608.

Di-benzyl ethanol amides, physiological action of, 1937, 119: 369.

Dichromats, blue excitation curve of, 1932, 101: 686.

Diet and adrenin content of adrenal glands, 1932, 100: 342.

and distribution of glycogen in muscle, 1934, 108: 708.

and growth rate of adolescent rats, 1932, 99: 379.

and hemoglobin concentration, 1935, 113: 582. and influence of adrenalectomy on liver fat, 1937, 120: 361.

and precursors of hemoglobin in dog, 1935, 112: 27.

and production of gastric ulcers, 1933, 105: 70.

and renal weight, 1933, 106: 571.

and reproduction, 1933, 105: 92.

and response to parathyroid and vitamin D, 1933, 105: 585, 596, 608, 621.

and survival of adrenalectomized rats, 1935, 113: 129.

and tissue growth, 1931, 97: 210.

blacktongue-producing, anemia caused by, 1935, 114: 25.

changes in hen's blood produced by, 1930, 94: 65.

copper in, and disintegration of erythrocytes, 1936, 116: 638.

deficient in inorganic salts, 1932, 101: 98.

deficient in vitamin A, effects of, 1932, 101: 529.

deficient saline, and development of teeth, 1935, 112: 286.

effect of, on survival of adrenalectomized rats, 1937, 118: 798.

effect of raw pancreas in, after pancreatectomy, 1936, 117: 166.

effect on dermatitis of heating egg white in, 1933, 104: 150.

effects of adding coffee to, in rats, 1934, 109: 103.

effects of adding minerals and sucrose to, 1934, 108: 215.

effects of different amounts of protein in, 1931, 96: 547, 557.

effects of different amounts of protein in, 1931, 97: 15, 322, 573, 626.

19: 376

on and

effects of different amounts of protein in, 1931, 98: 266. effects of self-selection of, 1937, 119; 388. factor in growth, 1932, 102: 566, 573, 581, 593. in maintenance of adrenalectomized dogs, 1937, 118: 87. in relation to reproduction and lactation, 1931, 96: 139. inadequate in mineral salts, effect on rat of, 1933, 105: 20. influence of excess vitamin A in, on uterus and ovary of rat, 1937, 119: 403. influence of, on urea clearance, 1937, 119: 87, 334. low in inorganic constituents, effect of, on activity of rat, 1934, 109: 99. low inorganic salt, skeletal changes due to, 1936, 115: 556. lysine deficient, effect of, on estrous cycle, 1937, 118: 786. maternal, reproduction and viability of young, 1936, 115: 147. mixed, urea and creatinine clearances on, 1931, 98: 572. of deparcreatized dog, lecithin in, 1931, 98: 74. of polished rice, effect of, on mineral content of pigeons, 1931, 99: 221. pellagra-producing, 1933, 104: 18. poor in inorganic salts, effect of, on blood, 1930, 94: 107. poor in inorganic salts, effects of replacement of ions in, 1936, 116: 43. relation of, to concentration of blood fibrin, 1930, 93: 554. sodium and chloride free, adrenal insufficiency and fluid distribution in adrenalectomized dogs, 1937, 119: 684. super-maintenance, failure of, to increase total transformation of energy per square meter of body surface, 1931, 97: 570. testicular degeneration and, 1932, 99: 477. Dietary copper, in iron utilization, 1937, 120: 423. Dietary factors influencing cardiac rigor, 1937, 118: 423. Dietary protein, effect of, on endocrine function and blood picture of female rats, 1937, 119: 381. physical activity in relation to, 1935, 113: 159 Diethylamine, anticoagulative action of, 1937, 119: 80. Diets, bulky, hypertrophy of alimentary tract on, 1932, 99: 417. control basal, in anemic dogs, 1936, 115: 651. effect of, on vitamin C in rat, 1936, 116: 446. ketogenic, 1934, 109: 53.

Differentiation in dogs, thyroid feeding and, 1936, 115: 162. Digestion and absorption of raw starch in dogs, 1932, 100: 178.

effect of calcium compounds on, 1931, 97: 386. effect of, on blood flow, 1934, 108: 621.

effect of, on blood flow from liver, 1934, 109: 52.

effect of, on white blood cells, 1933, 106: 309.

gastric, influence of exercise on, 1934, 107: 348, 355, 364, 370.

of food, effect of, on blood flow, 1934, 109: 33.

of living tissues by gastric and pancreatic juice, 1933, 105: 29.

of starch, effect of orally administered malt amylase on, 1936, 116: 10.

Digestive absorption, pancreatic secretion and, 1936, 116: 210.

Digestive activity of intestinal enzymes, 1933, 104: 659.

Digestive fluids, osmotic relations between blood and, 1933, 104: 476.

Digestive juices, dried natural, further experiments on, 1937, 119: 274.

natural dry, properties and use of, 1934, 109: 12.

Digestive leucocytosis question, 1932, 100: 351.

Digestive secretions, gastric secretagogic value of, 1936, 115: 386.

Digestive tract, passage of inert materials through, 1930, 92: 466. ulceration in, after hypophysectomy, 1934, 109: 63.

Digitalis, influence of barometric changes on potency of, for cats, 1931, 97: 540.

Dilodothyronine and thyroxine in muscular exercise, 1934, 110: 410.

Dinitrophenol, acid-base changes due to, 1935, 113: 186.

and oxygen uptake of tissues, 1934, 109: 232.

effect of, on basal metabolism, 1933, 106: 432. inhibition of cardiac respiration after, 1935, 111: 196.

Diodrast and hippuran, skiodan, renal excretion of, 1936, 115: 548.

Disalicyl aldehyde, physiological action of, 1934, 109: 68.

Distention a stimulus for uterine growth, 1936, 116: 510.

Distribution and excretion of ingested salts, 1937, 120: 411.

Diuresis and antidiuresis, renal blood flow in, 1937, 118: 95.

blood volume in, 1937, 118: 251.

by conditioned reflex, 1931, 96: 356.

caffein and, 1930, 92: 619.

pituitary, relation of thyroid to, 1933, 105: 559.

sulphate, 1932, 102: 370.

urine flow and, in marine teleosts, 1931, 97: 602.

water, conditioned inhibition of, 1933, 103: 362.

water, influence of exercise on, 1935, 113: 60.

Diuretic, sorbitol as, 1937, 119: 283.

Diuretic action of secretin preparations, 1931, 97: 276, 286.

Diuretic effects of various mercurial treatments, 1930, 93: 689.

Diuretics, action of, on normal individual, 1931, 97: 536.

Diurnal cycle in liver, 1933, 105: 177.

Diurnal temperature cycle, 1937, 119: 48.

Donnan equilibrium between nucleus and cytoplasm, 1933, 105: 6.

Drugs, action of, on isolated intestinal transplants, 1933, 106: 682.

effect of, on sleep, 1933, 106: 478.

responses to, of Ursus americanus, 1936, 116: 105.

Duodenal contents, effect of fat on pH of, 1936, 114: 603.

Duodenal secretion, human, composition of, 1934, 109: 112.

Duodenal secretions and acidity of gastric contents, 1935, 111: 293.

and experimental jejunal ulcer, 1936, 117: 79.

chloride and alkali content of, and gastric acidity and emptying time, 1936, 116:

gastric and, neutral chloride in, 1935, 112: 15.

Duodenum, gastric rhythm in, 1935, 111: 124.

Dura, contents of dural sac, 1932, 101: 292.

elasticity of, 1932, 101: 292, 668.

Dye, disappearance of, from plasma, 1935, 112: 56.

Dyes, vital, absorption spectra of, in plasma, 1937, 120: 494.

E

Ear, dog's reproduction of voice sounds from, 1933, 105: 32.

frequency of impulses in auditory pathways, 1932, 101: 28.

internal, relation of pressure in, to cerebrospinal fluid pressure, 1932, 101: 396. middle, effect of contraction of intra-aural muscles on transmission of sound in, 1937, 119: 420.

of frog, relation between maculae and semicircular canals, 1936, 116: 100. See Acoustic.

See Auditory.

See Cochlea.

See Cochlear.

See Hearing.

See Muscles, intra-aural.

See Vestibular system.

Ear pressure, middle, and auditory acuity, 1934, 110: 312.

Eck fistula, increased water exchange after, 1936, 117: 318.

Eck fistula dog, use of neutral fat by, 1935, 113: 138.

Eck fistula dogs, levulose and galactose tolerance in, 1935, 113: 133.

Edema, influence of blood vessel motion on, 1933, 106: 105.

relation of pH to, in perfused rabbit heart, 1930, 94: 60.

rôle of water and chlorides in experimental, 1932, 101: 5.

Edema fluid after lymphatic obstruction, 1934, 109: 572.
from superficial burn, composition of, 1930, 95: 330.

Edema fluid formation induced by superficial burn, 1930, 95: 325.

Edema formation and absorption, plasma colloid osmotic pressure as a factor in, 1936, 116: 46.

Egg, developing trout, relation between chloride and bicarbonate in, 1933, 105: 57. effect of environment on cytoplastic structures of, 1932, 101: 78.

Egg white, heating, in diet, effect of, on dermatitis, 1933, 104: 150.

Egg yolk, abnormalities in measurements of colligative properties of, 1936, 116:79.

Elasmobranch auricle, adrenalin and, 1930, 94: 135.

Elasmobranch fishes, water and salt exchange in, 1931, 98: 279, 296.

Elasmobranchs, innervation of stomach and rectum and action of adrenalin in, 1931, 97: 540.

Elasticity, effect of, on circulation, 1932, 101: 376.

of the eyeball, 1932, 101: 474.

Electrencephalogram during insulin hypoglycemia, 1937, 120: 559.

Electric current, high frequency, physiological effects of, 1933, 106: 291.

Electric currents directed through cat heart, 1935, 111: 406.

reaction of rabbit to, 1933, 105: 457.

Electric impedance of Asterias and Arbacia eggs, 1936, 116: 28.

Electric phenomena of crayfish claw during repetitive stimulation, 1936, 116: 282.

Electric responses in the submaxillary gland, 1933, 105: 508.

of facial muscles, 1937, 120: 384.

of smooth muscle, significance of, 1936, 116: 387.

Electric shock, current flowing through heart in, 1932, 100: 344.

ventricular fibrillation caused by, 1930, 92: 223.

Electric time clock, synchronous motor, 1937, 119: 271.

Electrical activity of cerebral cortex, 1937, 119: 186.

Electrical cochlear response of cats, 1936, 117: 24.

Electrical impedance of Hipponöe egg, 1935, 113: 29

Electrical phenomena in animals and plants, cause of, 1936, 116: 94.

Electrical potentials of embryo chick heart, 1937, 120: 173.

Electrical resistance changes in dying muscle, 1932, 99: 338.

on body, change of, with frequency, 1933, 105: 48.

Electrical response potentials from skin, 1936, 117: 189.

Electrical stimulation of interior of cerebellum in decerebrate cat, 1936, 117: 261.

Electrical stimuli, 1935, 111: 515.

Electrical stunning of dogs, 1932, 99: 298.

Electrical timing and recording devices, 1936, 116: 122.

Electrocardiac effect of premature contractions, 1936, 115: 569.

116:

540

396. l in, Electrocardiogram, effect of barbital derivatives on, 1937, 119: 322.

effect of conductors near heart on, 1936, 116: 343.

effects of heart-body contacts on, 1936, 116: 302.

form of, with remote leads, 1937, 118: 743.

of grasshopper, 1937, 119: 343.

Electrocardiograms of dogs with myocardial lesions, 1933, 106: 64.

Electrocardiograph, new, 1935, 113: 140.

Electrocardiographic study of ventricular lesions, 1935, 111: 382.

Electroencephalogram, human, 1935, 113: 34.

Electroencephalogram changes, with loss of consciousness, 1935, 113: 49.

Electrochemical potentials, measurement of, 1929, 91: 225.

Electrograms of optic cortex and retina, 1936, 117: 338.

Electrolyte changes after adrenalectomy, 1936, 115: 618.

in muscle during activity, 1936, 115: 345. in rat muscle during stimulation, 1936, 116: 47.

Electrolytes in rat tissue, 1937, 119: 372.

influence of, on respiration in nerve, 1935, 111: 681.

Electromyographic studies of alimentary tract, 1933, 105: 450, 454.

Electron equilibria in biological systems, 1929, 91: 225.

Elephantiasis, experimental lymphedema and, 1934, 108: 509.

Embryo heart, transplant of sino-atrium to conus in, 1936, 117: 313.

Embryonic growth, chemistry of, 1932, 102: 153.

Embryos, bird, mortality in, 1930, 94: 535.

rabbit, experimental interference with, 1932, 102: 375.

Emotion, effect of, on blood-platelet count, 1930, 93: 245.

Emotional excitement, specific gravity of blood and, 1935, 113: 205.

Encephalomalacia, brain weight and moisture in, 1936, 115: 610.

Endocrine complex, female, eosinophil leucocytes in, 1936, 117: 250.

Endocrine function, temperature analysis of, 1936, 116: 122.

Endocrine gland removal, specific dynamic action after, 1935, 113: 21.

Endocrine interrelations during gestation, 1935, 113: 119.

Endocrine organs, conditions of activity in, 1931, 96: 377, 392.

conditions of activity in, 1931, 98: 55, 447.

conditions of activity in, 1932, 99: 398.

conditions of activity in, 1933, 104: 557.

Endocrine rôle of placenta, 1936, 114: 399.

Enemas, oil, and colon motility, 1937, 118: 775.

Energy, determination of total transformation of, by insensible loss of weight, 1931, 97: 548

in muscular exercise, foodstuffs for, 1929, 91: 238.

liberated by cardiac muscle, work done and, 1933, 103: 400.

muscular, in exercise, protein as source of, 1932, 102: 325.

of metabolism of normal individuals, 1936, 116: 468, 485.

Energy cost of "push-up" exercise, 1931, 97: 529.

Energy expenditure, contraction frequency and, in striated muscle, 1930, 95: 121. in relation to food, 1935, 112: 307.

in relation to food, 1935, 114: 235.

Energy liberation in contracture and simple twitch, 1935, 113: 20.

Energy output, effect of cortico-adrenal extract on, 1932, 102: 707.

Energy requirement of pulmonary hyperventilation, 1933, 106: 291.

Energy source in glycogen-poor muscle, 1930, 95: 130.

Enterogastrone, 1935, 113: 53.

preparation and biological assay of, 1937, 118: 463.

Environmental conditions, germinal response to, 1936, 117: 285.

Enzyme action, growth and, effect of ethylene on, 1930, 91: 624.

Enzymes, effect of deuterium oxide on action of some, 1936, 116: 103. oxidizing, in brain extracts, 1937, 119: 34.

Eosinophil leucocytes in female endocrine complex, 1936, 117: 250.

Ephedrine, effects of, on blood fat, 1931, 97: 648.

fate of, in the dog, 1933, 105: 389.

Epididymis, neuromuscular mechanism of, 1933, 103: 582.

Epinephrin and muscle glycogen, 1930, 94: 557.

and pressure on heart muscle, 1931, 96: 657.

and sugar exchange of muscle and blood, 1934, 108: 107.

and urine formation, 1936, 115: 200.

effect of, on muscle glycogen, 1930, 94: 615.

effects of, on carbohydrate metabolism, 1930, 94: 69.

output of, during anaphylactic shock, 1933, 106: 414.

Epinephrin oxidation and stabilization, 1934, 108: 360.

Epinephrin-like substance in autolyzing adrenal, 1936, 115: 662.

Epinephrin. See Adrenalin.

Epinephrine and glucose, intravenous injection of, 1933, 103: 255.

and parasympathetic drugs, effect of, on intestine, 1932, 100: 313.

and the blood sugar level, 1937, 119: 1.

and utilization of sugar by muscles, 1937, 118: 328.

effect of, in normal men, 1930, 95: 71.

effect of, on arterial and venous plasma sugar and blood flow, 1935, 114: 53.

effect of, on glucose excretion, 1936, 117: 203.

effect of, on glucose excretion in depancreatized dogs, 1936, 116: 2.

effect of, on muscle glycogen, 1932, 101: 462.

effect of, on muscle and liver glycogen, 1931, 97: 467.

effect of, on sugar utilization during amytal anesthesia, 1930, 95: 285.

effects of, on urine excretion in dogs, 1937, 119: 140.

in tissue cultures of adrenal glands, 1935, 113: 529.

metabolic effects of subcutaneous and intravenous injections of, 1937, 119: 167.

on muscle and liver glycogen, 1931, 97: 557.

relationship of, to muscle and liver glycogen, 1933, 105: 8.

response of hyperthyroid heart to, 1935, 112: 227.

response of hypophysectomized dog to, 1935, 113: 306.

sensitivity of smooth musculature to, 1937, 120: 401.

Epinephrine action, mechanism of, 1930, 93: 273.

Epinephrine injection, insulin secretion after, 1935, 111: 223.

Epinephrine injections in dogs, constant intravenous, 1932, 99: 433.

Epinephrine output in experimental diabetes, 1937, 120: 440.

Epinephrine secretion, nervous mechanism of, 1931, 97: 555.

Epinephrine. See Adrenalin.

See Adrenine.

Epithelium, ciliated, neurogenous activation of, 1935, 112: 468.

Erection in cat after removal of lumbo-sacral segments, 1937, 119: 392.

mechanism of, 1933, 106: 441.

Ergosterol and parathyroid extract, effect of, on blood calcium, 1936, 115: 701. irradiated, action of, 1933, 105: 83.

1931,

1.

irradiated, effect of overdosage of, on bones of rats, 1933, 103: 338.

irradiated, effects of, on normal dogs, 1930, 93: 692. irradiated, injections of, 1931, 96: 21.

irradiated, serum constituents and, 1935, 113: 209.

Ergotamine, effect of, on sympathetic nervous system, 1935, 113: 592.

Ergotoxin and rage, 1935, 113: 129.

Ergotoxine, atropine and, effect of, on heart rate in unanesthetized cats, 1930, 94: 201.
circulatory phenomena disclosed by, 1933, 105: 373.

Erythrocyte, effects of roentgen rays on osmotic behavior of, 1936, 116: 167. longevity of, 1934, 107: 249.

somatic growth and maturation of, 1937, 118: 309. See Blood cells.

Erythrocyte number in fowls, gonadal condition and, 1930, 94: 656.

Erythrocyte reaction of dog to cobalt, 1937, 118: 207.

Erythrocyte values in dogs, rabbits and rats, 1936, 114: 502.

in women, variations in, 1932, 99: 562.

Erythrocyte variations after insulin, 1937, 119: 418.

Erythrocyte volume of blood, viscosity and, 1935, 114: 128.

Erythrocytes and oxygen in determining permeability of animal tissues, 1931, 97: 551. copper in diet and disintegration of, 1936, 116: 638.

effect of physical training on osmotic resistance of, 1937, 119: 296.

of amphibia, hemolysis of, 1930, 94: 278.

permeability of, to glucose, 1936, 114: 488.

permeability of, to organic anions, 1935, 113: 65.

saponin hemolysis of, 1929, 91: 1.

shape of, in relation to hemolysis, 1937, 120: 371.

sinking velocity of, 1935, 113: 137.

surface factors in rouleau formation, 1936, 115: 31. suspended in lymph, sedimentation of, 1932, 99: 424.

Erythropolesis, relation of spleen to, 1937, 118: 757.

Erythropoletic function, experimental index of, 1937, 119: 24.

Erythropoietic properties in serum of anemic animals, 1934, 107: 704.

Esophageal secretion, influence of vagus nerve on, 1933, 104: 73.

Estrin, biologic assay of, 1936, 116: 34.

effect of, on reproductive and vascular systems, 1931, 96: 677.

Estrin-injected rabbits, gonad-hypophyseal complex in, 1936, 115: 229.

Estrin injections, effect of, on basal metabolism, uterine endometrium, lactation. mating and maternal instincts in dog, 1930, 95: 630.

Estrous cycle and organ weights in relation to hypophysis, 1935, 111: 392. effect of lysine deficient diet on, 1937, 118: 786.

Estrus, inhibition of, by progesterone, 1937, 119: 623.

Ether, action of, on respiratory rate, 1930, 91: 461.

Ether, action of, on respiratory rate, 1990, 31. 401.

Ethyl alcohol, use of, as fuel in muscular exercise, 1934, 110: 416.

Ethylene, effect of, on growth and enzyme action, 1930, 91: 624.

Ethyl iodide, measurement of circulation by, 1930, 92: 707.

Evaporation and water balance, 1936, 115: 670.

Eviscerated rabbits, sugar utilization in, 1935, 111: 289.

Excitability, chronaxie as a measure of, 1934, 107: 275.

of smooth muscle, radiation and, 1936, 115: 194.

Excitation and inhibition in spinal center, 1930, 95: 142.smooth muscle, chemical theory of, 1936, 116: 414.

Excitatory processes, local, addition of, 1934, 109: 10.

Excretion and utilization of xylose, kinetics of, 1937, 119: 429.

glucose, effect of epinephrine on, 1936, 117: 203. of ammonia by perfused kidney, 1937, 120: 365. of ingested salts, distribution and, 1937, 120: 411. of inorganic sulphates in man, 1932, 101: 51. of intravenous sucrose, 1937, 120: 203. 4:201. of inulin by dog, 1935, 112: 405. of inulin, xylose and urea by normal and phlorizinized man, 1935, 113: 123. of phenol red by the dog, 1935, 113: 602. of phosphate by amphibian kidney, 1937, 118: 167. of urea by amphibian kidney, 1937, 118: 153. of urea in dog, glomerular filtration and, 1936, 117: 206. renal, of skiodan, diodrast and hippuran, by dog, 1936, 115: 548. Exercise, adrenalin and metabolism of, 1931, 97: 375. and circulating leucocytes, 1935, 113: 430. and respiration in pre-adolescent boys, 1936, 117: 577. and ventricular minute-output time, 1930, 94: 140. blood and urine sugar and urine protein in, 1931, 98: 352. : 551. blood changes and, 1935, 113: 586. blood changes during and after, 1935, 112: 202. blood sugar regulation in, 1935, 111: 21. cardio-vascular responses of pre-adolescent boys to, 1936, 114: 473. changes of muscle glycogen with, 1932, 100: 506. chart for acid-base changes in, 1931, 96: 538. effect of lactation and, on involution of uterus, 1936, 117: 487. effect of, on acetone bodies in blood, 1934, 109: 38. effect of, on acetone in blood on low carbohydrate diet, 1934, 108: 55. effect of, on basal pulse rate, 1934, 109: 102. effect of, on colonic motility, 1931, 99: 52. effect of, on digestion, 1933, 105: 48. effect of, on respiratory quotient and carbohydrate utilization, after ingestion of glucose and fructose, 1937, 119: 262. effects of training on respiratory response to, 1936, 116: 100. gastric secretion in relation to, 1935, 112: 442.

> mild, cardiac output in, 1931, 96: 8. moderate, circulatory adjustments to, 1932, 101: 494. muscular, effect of training on recovery from, 1931, 96: 265. muscular, ethyl alcohol as a fuel in, 1934, 109: 86. muscular, lactic acid removal after, 1934, 107: 681. muscular, plasma calcium after, 1936, 115: 539. muscular, use of metabolic waste heat in, 1929, 91: 238. physiology of, 1930, 93: 683. physiology of, 1930, 95: 202. physiology of, 1931, 96: 529.

influence of, on gastric digestion, 1934, 107: 348, 355, 364, 370.

metabolic rate, blood sugar and utilization of carbohydrate in, 1934, 108: 203.

physiology of, 1931, 97: 564. physiology of, 1932, 99: 487, 503, 512.

post-, suppression of kidney function in man, 1936, 116: 168.

protein as source of energy in, 1932, 102: 325.

heart rate during and after, 1935, 111: 554. in diabetes, respiratory quotient of, 1933, 103: 298.

tion.

rate of lactic acid removal in, 1937, 118: 457.
recovery of spleen volume after, 1930, 92: 240.
regular moderate, physiological effect of, 1930, 92: 253.
rest and, oxygen pulse during, 1931, 96: 126.
severe, changes in venous blood after, 1934, 107: 687.
strenuous, excess respiratory quotient after, 1931, 98: 135.
strenuous muscular, blood phosphates after, 1933, 103: 367.
urea clearance and proteinuria during, 1936, 117: 658.
utilization of ingested sugars after, 1937, 120: 579.

Exercise albuminuria, 1932, 101: 357, 365.

Exhaustion, physical, blood changes associated with, 1935, 111: 622.

Exophthalmos produced by vago-sympathetic stimulation, 1935, 113: 29.

Extinction, local stimulatory inactivation of cerebral cortex factor for, 1937, 118: 510.

Eye, area and intensity-time relationship in retina, 1935, 113: 299. changes in inspired air on intensity discrimination of, 1936, 115: 679. color-blind, blue excitation curve of, 1932, 101: 686. effect of adrenalin instillation on, 1933, 103: 153. effect of light adaptation on dark adaptation, 1936, 116: 72.

effects of sympathin and adrenine on, 1935, 113: 251.

extraocular reflexes, 1932, **100**: 78. gases in fluids of, 1933, **104**: 553.

human, interaction between distant areas in, 1930, 94: 41. human, interaction of adjacent areas in retina, 1934, 108: 701.

lipids of, 1934, 110: 182.

local adaptation in, 1930, 95: 229.

organization of retinal response, 1937, 120: 184.

pupillary inequality of, and lesions of occipital cortex, 1937, **120**: 144. pupillary light reflex of, in relation to superior colliculi, 1932, **101**: 64. relation of radiation to industrial and senile cataract, 1935, **113**: 538. stray light in, and retinal action potential, 1935, **111**: 335.

sympathetic nerve supply to, 1932, 100: 519.

synaptic reactions in, 1930, 95: 211.

tests for measuring brightness discrimination of, 1935, **112**: 414. time relations of visual pathway of, 1932, **101**: 8.

See Crystalline lens.

See Visual.

Eyeball, elasticity of, 1932, 101: 474.

elasticity of, under different intraocular pressures, 1932, **101**: 21. response of after-images to passive motion of, 1930, **94**: 611.

Eye movements, corneo-retinal potential in recording, 1936, 114: 423 parafloculus and, 1935, 113: 296. when lids are closed, 1937, 118: 8.

Eye muscles, adaptation to transposition of, 1936, 116: 245.

Eye reactions in pancreatic diabetes, 1933, 106: 491.

Eye structures, chemical constitution of, 1933, 103: 270.
in cat, central origin of sympathetic tone of, 1931, 97: 536.

Eyes, factors which influence dark adaptation of, 1937, 120: 689.

F

Fasting and tolerance to glucose and galactose, 1935, 112: 591. effect of, on activity of skeletal muscle, 1932, 100: 241. effect of, on blood fat, 1932, 99: 619.

effect of, on response to amino acids, 1930, 93: 69, 258. in normal and depancreatized dog, 1937, 119: 265.

Fasting birds, nitrogen excretion of, 1936, 115: 281.

Fat, blood, effect of fasting, phlorhizin and pancreatectomy on, 1932, 99:619.

calorigenic action of, in pancreatic diabetes, 1935, 112: 124.

carbohydrate production from, 1932, 101: 185. control of deposition of liver, 1932, 101: 7.

dietary, fecal lipid in relation to, 1934, 107: 49.

effect of, on pH of duodenal contents, 1936, 114: 603.

fecal, in absence of bile, 1936, 117: 525.

liver, adrenalectomy and, 1937, 120: 361.

liver, adrenalectomy and, in ketosis, 1937, 118: 525.

liver, of depancreatized dogs fed lecithin and pancreas, 1935, 110: 545.

permeability of rat's placenta to, 1933, 103: 73.

possibility of conversion into earbohydrate, 1932, 101: 51.

rôle of lung in metabolism of, 1930, 93: 521.

synthesis of, by intestine of diabetic dogs, 1935, 114: 132.

Fat conversion to carbohydrate in castor bean, 1932, 101: 27.

Fat deposition in liver, pancreas extract and, 1937, 119: 783.

Fat ingestion, effect of, on normal and damaged liver, 1931, 97: 131.

Fat metabolism, hyperthermia and, 1930, 95: 417.

Fat metabolism hormone and hyperglycemia, 1934, 109: 436.

Fat metabolizing hormone of pancreas, 1936, 117: 175.

Fat-soluble vitamins, rôle of bile in transport of, 1935, 111: 492, 502.

Fatigue and permeability of muscle, 1932, 100: 447.

and Wedensky inhibition, curarization, 1937, 119: 236.

effects of, on Purkinje cells, 1937, 119: 260.

evidence that cause of, is electrical, 1936, 116: 116.

in dogs, acidosis as a factor of, 1935, 113; 595.

in skeletal muscle, 1932, 101: 339.

motor nerve, influence of, on removal of curare block by physostigmin, 1931, 97: 507.

muscular, ion effects on, 1932, 100: 452.

Fatigue phenomena in cervical sympathetic fibers, 1932, 102: 87.

Fats, action of, on gut, 1937, 119: 386.

autoxidation of, 1931, 97: 562.

factors in gastric motor inhibition by, 1934, 108: 643.

Fatty acids of human duodenal bile, 1934, 107: 1.

Feather germ as indicator for thyroid preparations, 1931, 98: 463.

Fecal fat in absence of bile, 1936, 117: 525.

Fecal lipid in relation to dietary fat, 1934, 107: 49.

Fecal material in colon, water content of, 1935, 112: 559.

Feces, influence of bile on sterol in, 1936, 116: 317.

Fecundity, super-, produced by mare gonadotropic hormone, 1937, 119: 704.

Feeding, controlled, subnormal R.Q. values induced by, 1937, 120: 458.

Feeding method, paired, and vitamin A assay, 1933, 104: 608. paired, and vitamin B assay, 1933, 104: 594.

Female sex hormones of anterior pituitary, 1931, 97: 291.

Ferrocyanide, distribution of, in blood, 1935, 113: 629.

Fertility of female hairless rat, 1935, 111: 392.

Fetal blood sugar changes, maternal and, 1930, 95: 178.

Fetal carbohydrate metabolism, 1935, 113: 450.

: 510

Fetal circulation in mammals, 1930, 91: 637.

Fetal liver and placenta, glycogenic functions of, 1935, 112: 263.

rhythmic changes in, after feeding, 1935, 111: 590.

Fetal membranes, permeability of, 1932, 100: 21.

Fetal movements in rabbits and cats, 1937, 119: 382.

Fetal rat, development of, after brain injury, 1936, 115: 599.

Fetal respiration, regulation of, 1936, 116: 147.

Fetus, blood pressures in, 1937, 119: 206.

circulation in rat, 1932, 101: 304.

transmission of hypophyseal hormones to, 1933, 106: 323.

Fever, artificial, depth temperatures in, 1936, 117: 708.

bacterial, blood changes in, 1932, 101: 106.

diabetic, 1934, 110: 19.

experimental, in sympathectomized animals, 1935, 111: 539. experimental, peripheral circulation during, 1934, 110: 448.

Fiber potentials in cardiac nerves, 1931, 98: 220.

Fibrillation of tongue after hypoglossotomy, 1930, 91: 654.

ventricular, 1929, 91: 305.

ventricular, altered tissue state in, 1935, 112: 301.

ventricular, caused by electric shock, 1930, 92: 223.

ventricular, chemical factors in, 1930, 92: 639.

ventricular, recovery from, in cat, 1936, 115: 507.

Fibrin, blood, concentration of, relation of diet to, 1930, 93: 554.

investigation of structure of, by x-ray crystal method, 1930, 94: 497.

Fibrin digests, fibrinogen and pseudoglobulin in, 1933, 106: 475.

Fibrin resolution, - second phase of thrombin action, 1934, 107: 693.

Filtration through cellophane membranes, 1934, 109: 110.

Fish, absorption and excretion of water and salts by, 1930, 93: 480.

Fishes, respiratory activity of, 1930, 93: 417.

Flexion, over-, unilateral, in a cat and a dog, 1935, 113: 77.

Flexion reflex, conduction time in afferent tracts of spinal cord and, 1933, 105: 66.

Flexion reflex time in relation to cortical activity, 1934, 109: 296.

Flexor reactions, inhibition of, on homolateral cortical stimulation, 1935, 113: 110.

Flexor rigidity and priapism in spinal cat, 1932, 102: 75.

in hindlegs of spinal cat, 1934, 107: 441.

in spinal animals, 1933, 105: 28.

Flocculus, para-, and eye movements, 1935, 113: 296.

Fluid, extravascular, hypertension after injection of, 1937, 118: 1.

from known regions of amphibian renal tubule, 1937, 118: 111.

of body, acacia in restoring, 1930, 95: 561.

Fluid distribution, adrenal insufficiency and, 1937, 119: 684.

after intraperitoneal glucose, 1937, 120: 532.

and water intake, relation between blood osmotic pressure and, 1937, 120: 323.

Fluid redistribution after transfusions, 1934, 107: 647.

Fluids, body, adrenal cortex and distribution of, 1936, 116: 438.

of body, mechanical factors in exchange of, 1930, **93**: 588, 600, 607, 616.

Flowmeter, electromagnetic recording, 1937, 119: 355.

Fluorine, effect of, on metabolism of rats, 1934, 109: 645.

in nutrition of rat, 1933, 106: 350, 356.

of teeth, relation of parathyroids to, 1933, 103: 480.

Fluorine toxicosis, calcification in, 1933, 103: 489.

"Follicle-stimulating" substances, quantitative assay of, 1937, 119: 360.

Follicles, fate of mechanically ruptured, in ovulation, 1931, 98: 209.

Follicular and corpus luteum extracts, antagonistic action of, on bitterlings, 1936, 116: 103.

Follicular and corpus luteum hormones, relation of, to progestational proliferation, 1930, 92: 574.

Follicular-corpus luteum hormone relationship, 1932, 100: 111.

Follicular growth rate and ovulation, 1937, 120: 126.

Follicular hormone, response of reproductive tract to, 1932, 99: 349.

Follicular response to gonadotropic hormone, 1937, 119: 508.

Food and diurnal cycle in liver, 1933, 105: 177.

and water intakes in mice, 1931, 98: 169.

energy expenditure in relation to, 1935, 112: 307.

weight loss and energy expenditure in relation to, 1935, 114: 235.

Food ingestion, weight loss following, 1935, 111: 448.

Food intake and growth, effects of pituitary growth hormone on, 1935, 111: 341.

varying, effect of, on hogs, 1931, 97: 473.

Foodstuffs, effect of, on secretory activities of liver, pancreas and stomach, 1934, 107: 94.

Forebrain, influence of, on an autonomic reflex, 1937, 120: 257.

relation of, to temperature regulation, 1934, 109: 515.

Freezing point of normal and neoplastic tissues, 1934, 109: 56.

Friedman pregnancy test in monkey, 1937, 118: 664.

Fructose, influence of, on effective dead space in human respiration, 1933, 104: 10. utilization of, in mammals, 1936, 117: 134.

Fusion frequency, time course of, 1931, 98: 654.

G

Galactin and theelin in mammary gland development, 1935, 112: 673.

Galactose and human respiratory exchange, 1932, 102: 635, 646.

ingested, in dog, oxidation of, 1935, 110: 531.

metabolic fate of, in dogs and rabbits, 1935, 111: 530.

utilization of, after hepatectomy, 1935, 111: 483.

Galactose tolerance, glucose and, fasting and, 1935, 112: 591.

Gall bladder, absorption from, 1931, 97: 535, 553, 555.

and hepatic bile, anion and cation content of, 1932, 101: 86.

and hepatic bile, effect of cholecystokinin on contraction and evacuation of, 1932. 101: 101.

effects of cholecystokinin on, 1932, 101: 61.

emptying of, 1932, 102: 293.

evacuation of, 1932, 101: 74.

23.

isolated, tonus rhythm in, 1935, 112: 461.

isolated, response of, to cholecystokinin, 1933, 103: 275.

mammalian, species differences in reactions of, 1933, 105: 11.

rabbit, activity of, and cholecystokinin, 1932, 100: 594.

rate of emptying of, in patients with gastric and duodenal ulcer, 1937, 119: 275.

rates of resorption in, 1935, 111: 31.

rates of resorption in, 1935, 112: 383.

visualization of walls of, 1933, 106: 46.

Gall bladder function, 1930, 95: 511.

Gall bladder reaction to food, 1930, 92: 287, 301.

Gall-bladder contraction and evacuation, possible mechanisms for, 1930, 93: 642.

effect of cholecystokinin on, 1930, 93: 661.

humoral agents in, 1933, 103: 121.

of dog, isolated, reactions of, 1930, 93: 506.

Gall-bladder epithelium, bone-forming properties of, 1933, 105: 56.

Gall-bladder evacuation, relation of duodenal contents to, 1932, 101: 60.

Gall-bladder function, 1932, 99: 638, 648, 656.

1932, 100: 317.

liver and, 1932, 100: 433.

liver and, 1933, 103: 265.

Galvanic nystagmus reaction in monkey, 1937, 120: 703.

Galvanic stimuli, magnesium deprivation and, in rats, 1933, 105: 635.

Ganglion, caudal, of crayfish, responses to illumination of, 1933, 105: 80.

decentralized inferior mesenteric, control of intestine by, 1937, 118: 780.

Ganglionectomy, coeliac, effect of, on sugar tolerance, 1932, 102: 614.

Ganglionic transmission, effects of activity and altered circulation on, 1937, 119: 279.

Gas equilibria in lungs at high altitudes, 1936, 115: 530.

Gaseous exchanges of blow fly, 1935, 113: 64.

Gases, apparatus for dry microanalysis of, 1936, 116: 140.

Gastrectomized dogs, hemoglobin regeneration in, 1933, 105: 443.

Gastrectomized rat, survival time and nutritional state of, 1935, 113: 24.

Gastrectomy and hematologic studies in hog, 1934, 109: 70.

and vagotomy, gastric acidity after, 1936, 117: 533.

changes in plasma CO2 combining power and serum calcium after, 1937, 119:

in the rat, effects of, 1936, 117: 59.

Gastric acidity after coeliac ganglionectomy, 1933, 105: 399.

after gastrectomy and vagotomy, 1936, 117: 533.

after histaminase and pancreatin, 1934, 110: 243.

and emptying time, chloride and alkali content of duodenal secretions and, 1936,

and motility, effect of exercise on, 1934, 107: 364.

as influenced by exercise, psychic disturbance and anoxemia, 1934, 109: 50.

effect of muscular work on, 1932, 102: 258.

effect of vagus section on, 1929, 91: 161.

human, variations in, 1936, 116: 73.

hydrogen peroxide as depressant of, 1937, 119: 293.

in fetal and newborn rats, 1932, 100: 394.

influence of thyroid on, 1930, 95: 626.

intragastric and duodenal factors in, 1934, 107: 490.

intragastric factors in, 1934, 110: 251. late effects of vagotomy on, 1932, 99: 375.

regulation of, 1933, 106: 381.

relation of mucus to, 1934, 110: 28.

Gastric activity and anoxemia in man, 1935, 112: 451

Gastric anacidity after pilocarpine injections, 1934, 109: 34.

Gastric and duodenal secretions, neutral chloride in, 1935, 112: 15.

neutral chloride in, 1935, 113: 137.

Gastric and intestinal mucus, 1935, 113: 13.

Gastric atony, insulin and, in vitamin B deficiency, 1930, 91: 547.

Gastric body and fundus, physiological importance of, 1936, 116: 124.

Gastric cardia in unanesthetized animals, 1936, 116: 21.

Gastric chlorides, relation of blood electrolytes to, 1931, 99: 172.

Gastric contents, acidity of, and secretion of acid, 1936, 115: 429.
acidity of, duodenal secretions and, 1935, 111: 293.

Gastric contractions, passage of air during, 1931, 97: 505.

Gastric digestion, influence of exercise on, 1934, 107: 348, 355, 364, 370.

Gastric emptying in dogs, effect of atropine and pilocarpine on, 1936, 115: 113.

Gastric emptying time after acute hemorrhage, 1936, 117: 226.

effect of hunger on, 1929, 91: 206.

parathyroid-extract and, 1936, 116: 32 size of meal and, 1937, 119: 480.

Gastric evacuation of liquids, 1932, 102: 276.

pyloric and antral reflexes in, 1934, 108: 683.

Gastric function, alterations in, induced by stimulation from colon and appendix, 1930, 93: 688.

Gastric hunger contractions, Ca and Mg ions and, 1929, 91: 298.

control of, by hypnotic suggestion, 1935, 113: 47.

inhibition of, by intestinal distention, 1935, 113: 84.

phlorhizin and, 1930, 92: 690.

Gastric hunger mechanism, 1930, 93: 676.

1933, 104: 371.

Gastric inhibition after ingestion of carbohydrates, 1934, 109: 85.

Gastric, intra-, temperature, variations of, 1933, 105: 665.

Gastric juice, acidity of, 1933, 105: 9.

action of nitrogenous bases of, 1936, 115: 604.

fatal effect of total loss of, 1930, 93: 407.

histamine-like substance in, 1935, 113: 455.

importance of, in absorption of calcium, 1936, 116: 124.

new data concerning acidity of, 1931, 97: 505.

osmotic relation between blood and, 1933, 103: 143.

presence of a soluble mucoprotein in, 1931, 97: 569.

Gastric membranes, difference in potential across, 1937, 119: 763.

Gastric motility, action of insulin on, 1933, 104: 90.

and anhydremia, anorexia-, 1931, 96: 132.

and vitamin B deficiency, 1930, 91: 531.

anhydremia and vitamin B-deficiency, 1930, 92: 83.

effect of exercise on, 1934, 107: 355.

effect of splanchnic section on, 1935, 113: 8.

effect of vagotomy on, 1934, 109: 221.

hyperthyroidism and, 1929, 91: 291.

hyperthyroidism and, 1933, 104: 624.

in man, effect of vagotomy on, 1936, 116: 6.

influence of cholecystectomy and herniorrhaphy on, 1937, 119: 266.

inhibition of, from intestinal distension, 1936, 115: 410.

insulin and, 1937, 120: 554.

intravenous amino acids and, 1935, 112: 438.

of a fish during hunger and digestion, 1937, 119: 361.

of Ariolimax californicus, 1935, 113: 103.

parathormone and, 1930, 91: 554.

section of splanchnic nerves and, 1937, 120: 356.

Gastric motor inhibition by fats, factors in, 1934, 108: 643.

from ingested carbohydrates, 1934, 109: 133.

Gastric motor mechanism in the crab, 1930, 93: 678.

279.

19:

36,

Gastric pepsin, effect of histamine on secretion of, 1931, 97: 124.

Gastric peristalsis, is rotation of crystalline style in clam a substitute for, 1931, 97: 548.

small intestine and, 1933, 105: 95.

Gastric pyloro-fundic reflex controlling acid secretion, 1937, 119: 421.

Gastric pylorus in evacuation of oil and hydrochloric acid solution, 1936, 116: 154. influence of, on secretion of acid by fundus, 1936, 116: 163.

G

G

G

G

Gastric reaction to acetylcholine in rat, 1935, 113: 101.

Gastric response to histamine, histaminase and, 1934, 107: 168.

Gastric rhythm in duodenum, 1935, 111: 124.

Gastric secretagogic value of digestive secretions, 1936, 115: 386.

Gastric secretion, 1931, 98: 551.

acid inhibition of, 1937, 118: 766.

action of secretagogues on, 1933, 105: 220.

activation of, by vagal stimulation, 1931, 96: 363.

after histamine and pilocarpin, 1931, 97: 69.

after intravenous calcium lactate, 1930, 94: 165.

after pylorectomy, 1937, 118: 505.

and oil of peppermint, 1935, 110: 686.

atropine and, 1937, 120: 657.

chloride concentration of, 1934, 108: 197.

effects of histamine, acetyl-\beta-methylcholine and atropine on, 1938, 119: 319.

effects of mecholyl on, 1937, 120: 705.

experiments on acid-base equilibrium in relation to, 1931, 97: 568.

from fundic pouches and from whole stomach, chloride concentration of, 1934, 109: 112.

histamine and, 1932, 101: 331.

in Elasmobranchs, relation of sympathetic nervous system to, 1934, 109: 2.

in relation to exercise, 1935, 112: 442.

in ruminants, 1937, 119: 720.

of hydrochloric acid, influence of acid on, 1935, 113: 138.

psychie factor in acid inhibition of, 1937, 120: 619.

Gastric secretory curve before and after Mann-Williamson operation and bearing on duodenal regurgitation, 1937, 119: 420.

normal, using 2 per cent Liebig's extract test meal, 1936, 116: 163.

with improved test meal, 1936, 115: 5.

Gastric secretory cycle, effect of exercise on, 1934, 107: 348.

Gastric tonus and hypermotility after insulin, 1931, 96: 54.

and motility, reflex influence of lower portion of large gut on, 1935, 113: 89.

Gastric. See Stomach.

Gastro-duodenal mucosa, effect of hypersecretion on, 1937, 120: 87.

Gastro-intestinal inhibition, reflex and humoral, 1937, 120: 750.

Gastro-intestinal motility and blood sugar levels, 1932, 100: 102.

effect of carbohydrate administration on, 1931, 97: 552.

effects of anoxemia on, 1932, 102: 629.

hypothalamus and, 1935, 112: 214.

thyroid feeding and, 1932, 101: 598, 605.

Gastro-intestinal tract, absorption of insulin from, 1933, 104: 636.

action of insulin on motility of, 1930, 91: 467, 475, 482, 488.

action of insulin on motility of, 1930, 95: 7.

effect of heat on blood and lymph flow from, 1937, 119: 197.

1931,

54.

134

nø

effect of heat on blood and lymph flow from, 1937, 119: 398. electromyographic studies of, 1932, 102: 683.

electromyographic studies of, 1933, 104: 62, 67.

electromyographic studies of, 1933, 105: 5, 450, 454. hypertrophy of, and high residue diets, 1932, 99: 417. injury to, by barbiturates, 1933, 105: 63.

production of sympathin in, 1937, 119: 425. reaction of gall bladder to stimulation of, 1930, 92: 287, 301.

Gastro-intestinal tract ulceration after hypothalamic lesions, avoidance of, by peripheral nerve section, 1935, 113: 76. Gastro-duodenal ulceration, absence of, after prolonged physiologic hypersecretion,

1936, 116: 138.

Gastro-intestinal wall, passage of native proteins through, 1934, 109: 86.

Gelatin, effect of alcohol on electric mobility of, 1932, 101: 28.

Gelsemicine, action and toxicity of, 1937, 119: 287.

Genital organs, impotence after denervation of, 1931, 96: 321. weight of, abdominal sympathectomy and, 1930, 95: 601.

Genital tract of macaque during menstrual cycle, 1935, 113: 133.

Germinal response to environmental conditions, 1936, 117: 285.

Gestation and lactation, weight of mothers during, 1931, 97: 626.

Gland, submaxillary, autonomic effects in, 1934, 109: 114. submaxillary, electric responses in, 1933, 105: 508.

Glands of jejunum, adaptive secretion of, 1936, 116: 563.

salivary, motor mechanism of, 1930, 91: 370. salivary, rôle of, in thirst mechanism, 1931, 96: 221.

Glandular activity, lymph formation during, 1935, 112: 657.

Glandular secretions, osmotic relations of blood and, 1931, 99: 172.

Glandular metabolism, 1930, 93: 568.

Glomerular clearance in dog, effects of feeding and maintenance diet on, 1932, 101:

Glomerular excretion of phenolsulphonephthalein, 1929, 91: 178.

Glomerular filtrate, changes in, during passage through tubule, 1934, 109: 87, 107. measurement of, by sugars, 1932, 100: 301.

Glomerular filtration, renal blood pressure and, 1934, 107: 227. and urea excretion in dog, 1936, 117: 206.

Glomerular function, 1932, 102: 222.

Glomerulus, renal tubule and, 1930, 95: 493.

Glossopharyngeal respiratory reflex, 1935, 112: 684.

Glottis, reflex closure of, 1934, 109: 14.

Gluconeogenesis, effect of hypophysectomy on, 1935, 114: 110. from fat, 1932, 101: 185.

from fat, possibility of, 1931, 97: 531.

Glucose, absorption of, from chronic jejunal loops, 1933, 105: 82. absorption of, from intestine, 1933, 104: 700.

and galactose tolerance, fasting and, 1935, 112: 591.

and levulose absorption, rates of, 1931, 97: 509.

and sucrose, relative rates of absorption of, 1936, 117: 257.

antiketogenic action of, in absence of insulin, 1937, 118: 290.

distribution of, in blood, 1936, 117: 335.

effect of, on reducing power of cerebrospinal fluid, 1935, 112: 97. epinephrine and, intravenous injection of, 1933, 103: 255.

Gly

GI GI

in blood, distribution of, 1935, 111: 551.

in hepatic and portal vein blood, 1934, 109: 303.

influence of acetylcholin on absorption of, 1933, 104: 684.

influence of, on effective dead space in human respiration, 1933, 104: 10.

intraperitoneal, distribution of fluid after, 1937, 120: 532.

intravenous, toxic effects of, 1936, 116: 194.

nitrogen-sparing action of, 1937, 120: 681.

oxidation of, after fasting, 1933, 105: 18.

permeability of erythrocytes to, 1936, 114: 488.

permeability of red cell membrane to, 1935, 111: 231.

response of liver to oral administration of, 1937, 120: 52.

water retention in blood after ingestion of, 1931, 98: 216.

Glucose absorption from chronic loops of colon, 1933, 105: 187.

Glucose distribution in blood cells and serum, 1937, 118: 431.

Glucose excretion, effect of epinephrine on, 1936, 117: 203.

Glucose injection, serum and muscle phosphate changes after, 1933, 105: 79. serum phosphate after, 1934, 110: 117.

Glucose injections in study of carbohydrate metabólism, 1930, 92: 543, 555.

Glucose ratio of blood and cerebrospinal fluid, 1933, 103: 613.

Glucose reabsorption in amphibian renal tubule, 1937, 118: 130.

Glucose tolerance and glycogen storage capacity, 1934, 108: 639.

blood sugar and, at high altitudes, 1936, 116: 309.

in fasting dogs, 1932, 101: 18.

in phlorhizinized dogs, 1932, 101: 166.

Glucose tolerance test in relatives of diabetic patients, 1933, 105: 40.

Glucose utilization after phlorhidzin and hepatectomy, 1936, 117: 323.

Glutathione in peripheral nerve, 1937, 119: 593.

metabolism of, 1932, 102: 714.

Glycemic level, influence of vagus nerve on, 1933, 105: 257.

Glycerol, action of, on animal organism, 1933, 103: 517.

Glycine, effect of, on excretion of creatine and creatinine, 1935, 111: 596.

specific dynamic action of, intravenously administered to nephrectomized dogs, 1936. 116: 40.

Glycine feeding and creatinine and creatine in urine, 1937, 118: 562

Glycogen, diet and distribution of, in muscle, 1934, 108: 708.

effect of low atmospheric pressure on, 1934, 110: 273.

formation of, after pancreatectomy, 1932, 102: 409.

liver, effect of thyroid and iodine on, 1933, 105: 103.

liver, following epinephrin injections, 1935, 111: 223.

liver, relation of insulin to, 1933, 103: 5.

liver, storage in diabetic animals, 1933, 103: 18.

muscle and liver, effect of epinephrine on, 1931, 97: 467.

muscle, changes in, with physical training, 1932, 100: 506.

muscle, effect of epinephrin on, 1930, 94: 615.

muscle, effect of epinephrine on, 1932, 101: 462.

muscle, effect of regional sympathectomy on, 1931, 96: 308.

muscle, epinephrin and, 1930, 94: 557.

muscle, influence of sympathetics on, 1931, 97: 57.

of liver and muscle after hypophysectomy, 1936, 114: 468.

rôle of, in contraction of perfused rabbit heart, 1930, 94: 35.

Glycogen content of perfused rabbit heart, 1933, 105: 402.

Glycogen disappearance in perfused rabbit heart, 1932, 99: 429.

Glycogen formation from amino acids, 1931, 97: 526.

in rats, 1930, 93: 653.

in rats, 1930, 94: 11.

Glycogen functions of fetal liver and placenta, 1935, 112: 263.

Glycogen metabolism of skeletal muscle, nervous system and, 1935, 111: 243.

Glycogen storage by fresh-water mussels, 1932, 101: 32.

Glycogen storage capacity, glucose tolerance and, 1934, 108: 639.

Glycogenesis in totally phlorhizinized organism, 1932, 101: 621.

Glycolysis, anaerobic, in polyneuritic chick tissue, 1936, 117: 151.
anaerobic, in tissues from polyneuritic chicks, 1936, 117: 151.

and oxidation of sugar in blood, 1932, **99**: 408.

cortico-adrenal extract and, 1932, 102: 693.

influence of methylene blue and sodium iodoacetate on, 1931, 97: 523.

muscle, reversible inhibition of, 1937, 120: 522.

reversible inactivation of, by mercury compounds, 1937, 119: 317.

Glyoxoladine compounds, action of some, 1935, 113: 93.

Goat's milk anemia, 1935, 113: 279.

gs.

Gonad, anti-, action of prolactin, 1937, 119: 610.

Gonad complex, hypophyseal-, effect of oestrin on, 1935, 110: 681.

Gonad-hypophyseal complex in estrin-injected rabbits, 1936, 115: 229.

Gonad principle of hypophysis, 1934, 108: 22.

Gonad-stimulating hormones in immature rats, 1933, 106: 238.

relation of thyroid to, 1934, 108: 498.

Gonad stimulating hormones, interactions of, in ovarian development, 1934, 109:

Gonad-stimulating principle of mare serum, 1932, 102: 227.

Gonad stimulating substances, assay of, 1937, 119: 294.

Gonad-stimulation, thyroid hormone and mechanism of, 1937, 120: 486.

Gonadal condition and erythrocyte number in fowls, 1930, 94: 656.

Gonadal stimulation, placentomata in rats following, 1931, 98: 387.

Gonadectomized rats, amniotin and activity of, 1934, 108: 136.

pregnancy urine by mouth to, 1934, 110: 499.

Gonadectomy, effect of, on body structure and weight, 1936, 114: 515.

Gonadotropic action of pituitary extracts augmented by copper, 1936, 117: 168.

Gonadotropic complex, secretion of, oestrone and, 1937, 120: 232

Gonadotropic extract, potency of distributed doses of, 1934, 110: 458.

Gonadotropic extracts in immature male rats, 1936, 114: 483.

pituitary augmentation of, 1937, 119: 574.

Gonadotropic factors in pregnant mares' blood, 1937, 119: 331.

Gonadotropic hormone, follicular response to, 1937, 119: 508.

histological changes induced in testes of immature doves and pigeons by, 1936, 116: 94.

mare, fate of, in blood stream, 1935, 112: 21.

superfecundity produced by, 1937, 119: 704.

Gonadotropic substances, thyrotropic and, in pituitary, 1935, 110: 692.

Gonadotropic substances, anti-, 1935, 113: 3.

Gonads and adrenals, interrelationship between, 1933, 103: 511.

Granulocytes, action of benzol on, 1932, 101: 87.

Grasshopper extracts, physiological studies of, 1937, 119: 368.

Gravity, movements of center of, in work, 1930, 93: 433.

relation of center of, to base of support in stance, 1937, 119: 331.

Growth and enzyme action, effect of ethylene on, 1930, 91: 624. and reproduction, effect of feeding liver on, 1933, 105: 262. and respiration in Chilomonas paramecium, effect of silicon on, 1936, 116: 108. and sexual activity in relation to adrenal, 1937, 118: 677. diet factor in, 1932, 102: 566, 573, 581, 593. effect of alcohol injections on, 1932, 100: 74. effect of minerals and sucrose on, 1934, 108: 215. effect of sunshine on, 1932, 102: 422. effect on, of different amounts of protein in diet, 1931, 96: 547. embryonic, chemistry of, 1932, 102: 153. influence of fluorine on, 1933, 106: 350. of albino rat, 1932, 100: 511. of body before birth, 1930, 93: 685. of chicken combs and testes, effect of confinement on, 1932, 102: 271. of chicks, effect of ethyl alcohol on, 1930, 92: 450. of chicks, effect of solar irradiation on, 1930, 94: 84. of chicks, effects of solar irradiation on, 1930, 93: 686. of mammalian tissues after sympathetic denervation, 1932, 100: 295. of mouse, climatic influence on, 1934, 107: 635. of pigeon, metabolism during, 1932, 101: 251. of rat, abdominal sympathectomy and, 1930, 95: 601. of rat after excision of sexual organs, 1930, 93: 307. of rat, effect of deficient water-intake on, 1931, 97: 146. of wattles and testes after removal of combs, 1933, 103: 647. pituitary growth hormone, food intake and, 1935, 111: 341. significance of amino acids in, 1932, 101: 47. somatic, and maturation of erythrocyte, 1937, 118: 309. under paired-feeding regimen, 1933, 105: 66. uterine, distention a stimulus for, 1936, 116: 510. Growth hormone and phosphatase activity, 1935, 112: 477. Growth rate, follicular, and ovulation, 1937, 120: 126. of adolescent rats, 1932, 99: 379. Guanidine sulphate, sympathomimetic action of, 1930, 93: 692.

Н

Hair growth and adrenals, 1937, 120: 427.

HCN and CO poisoning, methylene blue in, 1932, 102: 145.

Hearing and electrical potentials of cochlea and auditory nerve, 1937, 120: 666. cochlear response as index to, 1936, 116: 524. effect on, of changes in respiratory gases, 1935, 112: 519. function of basilar membrane in, 1929, 91: 8. function of organ of Corti in, 1935, 111: 187. function of round window in, 1935, 111: 416. in chimpanzee, upper limit of, 1935, 112: 109. objective measures of, 1936, 116: 38.

See Ear.

Heart absorption of oxygen glycose and lactic acid by 1932, 101: 76.

Heart, absorption of oxygen, glucose and lactic acid by, 1932, 101: 76.
action of vagus on, during acute anoxemia, 1933, 105: 469.
alligator, stabilization of fundamental rhythm of, 1931, 97: 530.
and cardiac nerve of Limulus, 1932, 101: 53.
and circulation in disease, 1934, 109: 101.
and heart strips, factors determining junctional block in, 1934, 109: 40.

108.

and median cardiac nerve of Limulus, 1933, 103: 104. and respiratory beat in Limulus, synchronism of, 1936, 116: 153. and skeletal muscle, electrical field around, 1934, 109: 34. and spleen, effect of prolonged anoxemia on, 1936, 116: 290. beating, heat liberated by, 1934, 107: 551. body contacts, effects of, on electrocardiogram, 1936, 116: 302. cardiodynamic effects of coronary ligation, 1932, 101:81. cat, electric currents directed through, 1935, 111: 406. chemical changes in, after coronary occlusion, 1934, 109: 403. chick, action of caffeine of vagus fibres of, 1932, 100: 357. compensatory pause in, 1931, 97: 676. conduction pathways adjacent to, 1935, 111: 83. congestion of, acid production in ischemia and, 1937, 118: 217. CO-poisoned and illuminated, frequency change in, 1937, 119: 309. coronary constrictor neurones of, 1933, 105; 38. denervated, emotional acceleration of, after exclusion of known humoral accelerators, 1931, 96: 377. denervated, rate of, massage of thyroid gland and, 1930, 95: 427. denervated response to adrenine, 1935, 110: 620. depressor reflex, after vagotomy, 1935, 110: 602. diabetic, carbohydrate metabolism of, 1936, 114: 273. dog's, intravenous injection of sodium hexa meta phosphate on, 1937, 119: 344. eel, response of, to a single vagal volley, 1936, 117: 596. effect of alternating electrical currents on, 1933, 103: 444. effect of conductors near, on electrocardiogram, 1936, 116: 343. effect of different fibers in vagus and sympathetic nerves on, 1930, 93: 656. effect of high frequency sound waves on, 1929, 91: 284. effect of intravenous calcium injections on, 1937, 119: 378. effect of posture on minute volume of, 1934, 110: 14. effect of respiration on output of, 1932, 101: 33. effect of staphylococcus aureus toxin on, 1937, 119: 337. effect of vagus on diastolic size of, 1931, 97: 568. electric currents generated by, 1934, 109: 62. "electrical axis" of, 1937, 119: 390. embryo chick, electrical potentials of, 1937, 120: 173. embryo, transplant of sino-atrium to conus in, 1936, 117: 313. energy liberation in, and digitalis glucosides, 1935, 113: 105. excised frog, thyroxin and metabolism of, 1934, 110: 187. excised Limulus, thyroxin and metabolism of, 1936, 114: 618. factors concerned in arrest of contraction of, 1935, 113: 677. frog, functional activity of, 1929, 91: 47. hyperthyroid, response of, to epinephrine, 1935, 112: 227. in electric shock, current flowing through, 1932, 100: 344. influence of calcium salts and parathyroid extract on energy liberation and efficiency of, 1933, 105: 79. innervation of, of Scyllium canicula, 1930, 93: 669. intermediate receptive substance of, 1931, 97: 271. intra-auricular block, 1930, 91: 696. isolated embryonic, block as produced by ouabain in, 1937, 119: 343. isolated, insulin and sugar in, 1930, 92: 144.

isolated mammalian, new method for perfusing, 1931, 97: 563.

isolated turtle, external work of 1932, 99: 579.

H

H

H

H

H

H

H

Limulus, conditions affecting response of, 1930, 94: 619.

Limulus, extra systoles in, 1930, 93: 186.

Limulus, pace maker of, 1930, 93: 178.

Limulus, pacemaker mechanism in, 1936, 117: 686.

mammalian, carbohydrate metabolism of, 1933, 103: 712.

mammalian, excitatory process in, 1936, 115: 43.

mammalian, monophasic electrogram from, 1935, 111: 177.

mammalian, origin of R and T potentials from, 1937, 120: 663.

muscle sounds in auscultation of, 1937, 118: 359.

nature of electrical field around, 1933, 106: 574.

nerve mechanisms of, 1935, 114: 212.

normal, filling of, 1930, 91: 712.

of chick in biological assay of digitalis, 1932, 101:48.

of monkey, reactions of strips from, 1930, 93: 687.

of rabbit, isolated, electrical changes in, after changes in potassium content of perfusing fluid, 1933, 105: 72.

overdistended, 1931, 98: 556, 569.

overdistended, observations on, 1931, 97: 535.

path of pain fibers from, 1936, 114: 688.

perfused cat, effect of short radio waves on, 1933, 104: 349.

perfused dog, phosphorus compounds in, 1934, 110: 97.

perfused, osmotic pressure, bound water and edema in, 1931, 96: 541.

perfused rabbit, glycogen content of, 1933, 105: 402.

perfused rabbit, glycogen disappearance in, 1932, 99: 429.

peripheral innervation of, 1932, 101: 43.

position and character of electrocardiogram, 1932, 101: 62.

potassium and all-or-none response of, 1935, 113: 560.

recovery of, in electric shock, 1929, 91: 305.

reflex inhibition of branchio-vascular origin, 1932, 101: 69.

respiratory metabolism and lactic acid oxidative quotient of, 1937, 119: 404.

response of, to exercises of graded intensity, 1937, 119: 415.

revival of, from ventricular fibrillation, 1930, 92: 223.

rhythm of young rats, effect of high and low calcium diets on, 1936, 116: 3.

rôle of ventricle in filling of, 1930, 93: 662.

suppression of oxidations by vagus inhibition of, 1933, 105: 35.

tortoise and frog, R wave potentials in, 1934, 110: 422.

tortoise, T potential of, 1935, 113:83.

tortoise, T wave potentials in, 1935, 114: 119.

turtle, chronaxie of vagus control of, 1930, 94: 101.

turtle, distribution of vagus control of, 1935, 112: 207.

turtle, factors in functional activity of, 1934, 108: 265.

turtle, graded responses to graded stimuli in, 1935, 113: 139.

turtle, inorganic salts and oxygen use by, 1935, 111: 51.

turtle, refractory periods in, 1935, 112: 610.

turtle, temperature and vagal inhibitory mechanism of, 1935, 113: 15.

vagus action of, in acute anoxemia, 1032, 101: 100.

ventricular action currents after coronary occlusion, 1935, 113: 683.

See Cardiac.

See Cardiovascular.

Heart action potentials of chick embryo, 1937, 119: 357.

Heart-block in the terrapin, 1931, 97: 439.

Heart/body weight ratio, effect of prolonged inanition on, 1936, 116: 635.

Heart changes of elasmobranch fishes due to adrenalin, 1930, 94: 135.

Heart conducting system, 1937, 119: 390.

Heart contraction and oxygen consumption, 1935, 113: 654.

Heart currents, electrical shunting of, and electrical field of body, 1935, 113: 103.

Heart electrocardiographic curves resulting from premature contractions, 1936, 115: 569.

Heart metabolism, 1930, 94: 630.

Heart muscle, absorption of lactic acid by, 1931, 98: 244.

action of compression on contraction of, 1930, 93: 90.

buffering capacity of, 1930, 93: 190.

effect of thyroxin on, 1934, 109: 312.

electrical and mechanical response of, 1931, 98: 318.

electrical field around, 1933, 105: 33.

epinephrin and pressure on, 1931, 96: 657.

metabolism and irritability of, 1933, 103: 620.

permeability of, 1931, 98: 163.

refractory period of, 1933, 105: 29.

subthreshold electrical currents and, 1932, 100: 671.

unidirectional block in, 1929, 91: 65.

work done and energy liberated by, 1933, 103: 400.

Heart musculature, effects of subthreshold electrical currents on, 1932, 101: 83.

Heart nerves, fiber potentials in, 1931, 98: 220.

Heart perfused, rôle of glycogen in contraction of, 1930, 94: 35.

Heart rate and blood flow in hypertension, 1936, 114: 609.

and blood sugar after hypophyseal extracts, 1930, 95: 605.

after sympathectomy and vagotomy, 1930, 95: 605.

after sympathectomy and vagotomy, effect of insulin on, 1931, 96: 311.

changes with exposure of carotid gland region to lowered blood oxygen tensions, 1936, 116: 10.

during and after exercise, 1935, 111: 554.

during emotional excitement, 1930, 93: 637.

effect of vagotomy on, 1930, 92: 275.

in unanesthetized cats, 1930, 94: 201.

of dogs after thyroid feeding, 1931, 99: 261.

of dogs breathing normal and oxygen-rich air, 1930, 92: 436.

reflex changes of, 1931, 98: 430.

rhythmic arterial expansion in control of, 1933, 103: 417.

rhythmical arterial expansion as factor in control of, 1932, 101: 76.

Heart rates during decorticate sham rage, 1930, 93: 631.

Heart rhythm following pacemaker and atrial stimuli, 1936, 116: 358.

Heart rhythmicity, relation of ions to, 1932, 99: 666.

Heart slow parasystolic focus with exit-blocking, 1937, 119: 261.

Heart strips in conducting medium, electrograms obtained from, 1934, 109: 40.

Heart tracings, frog, graphic analysis of, 1932, 99: 308.

Heart volume, cinematography in study of, 1930, 94: 641.

Hearts, anterior lymph, sympathetic influence on, 1934, 109: 7.

lymphatic, homolateral synchronism of, 1932, 101:85.

of growing dogs, chronic effects of exercise on, 1932, 99: 487, 507, 512.

of normal and thyroxinized animals, sensitivity to oxygen-want and to sodium lactate of, 1930, 93: 673.

reptilian lymph, bilateral integration of, 1934, 109: 84.

t of

turtle, treated with excess of potassium, loss of all-or-none response in, 1935, 113: 139.

Heat, effect of, on blood and lymph flow from gastro-intestinal tract, 1937, 119: 197.
effect of short radio waves and, on elasticity of aorta, 1933, 104: 347.

effects of cyclopropane anesthesia on, 1936, 116: 109.

humid, salt economy in, 1937, 118: 285.

in man and dog, mechanisms for dissipating, 1933, 104: 36.

liberated by beating heart, 1934, 107: 551.

mammalian, R and T potentials in, 1936, 116: 46.

mechanism available to organism for dissipation of, 1930, 93: 698.

recovery, after muscle twitch and short tetanus, 1933, 105: 17.

rôle of extremities in dissipation of, 1933, 106: 589.

Heat disposal by cattle, influence of plane of nutrition on, 1936, 116: 262.

Heat exchange and vasomotor responses, 1936, 117: 36.

Heat loss and heat production mechanisms in chronic preparations, 1935, 113: 78.

Heat production in contracting muscle, method of measuring, 1934, 109: 100.

in relation to cortical lesions, 1936, 114: 661.

of smooth muscle, 1930, 92: 117.

Heat regulating mechanisms, localization of, in upper medulla and pons, 1930, 93: 665.

Heat regulation and water exchange, 1931, 98: 615.

and water exchange, 1933, 104: 127.

and water exchange, 1934, 107: 70.

central control of, 1930, 93: 227.

Heat rigor, reversible, of elastic tissue, 1933, 106: 125.

"Heavy water," concentration of, determined by falling drop method, 1935, 113:

Helium gas in decompression of divers, 1937, 120: 712.

Hematopoletic action of cobalt, 1936, 114: 414.

Heme. See Blood.

Hemodynamic factors in aortic and ventricular pressure pulses, 1931, 97: 689.

Hemodynamics, changes in, 1932, 99: 534.

of arteriosclerosis, 1931, 96: 426.

Hemoglobin and alkali of blood, 1937, 119: 332.

bile pigment formation from, 1931, 97:654.

effect of, on volume of kidney, 1931, 98: 181.

human, carbamino compounds of CO2 with, 1936, 116: 48.

muscle, spectrophotometric study of, 1930, 94: 521.

precursors of, diet and, in growing dog, 1935, 112: 27.

relation of, to age and reproduction, 1931, 98: 311.

Hemoglobin concentration, diet and, 1935, 113: 582. of blood of growing rats, 1934, 108: 373.

Hemoglobin content of blood of fowls, 1931, 96: 89.

Hemoglobin determination and study of hemolysis in vivo, 1937, 119: 70.

Hemoglobin formation in obstructive jaundice, 1930, 91: 409.

Hemoglobin interrelation, bile pigment and, 1931, 96: 449, 463.

Hemoglobin level in poultry, regulation of, 1933, 105: 407.

Hemoglobin production in normal livers, 1934, 108: 279.

Hemoglobin production factors in anemic horse liver, 1934, 108: 270.

Hemoglobin regeneration in gastrectomized dogs, 1933, 105: 443.

Hemoglobin Ringer as a mammalian perfusion medium, 1933, 105: 2.

Hemoglobin solutions, inactivation of, 1932, 101: 86.

, 1935,

9: 197.

: 78.

30, 93:

, 113:

Hemoglobin studies in chickens, 1935, 113: 96.

Hemolysin formation, effect of cortico-adrenal extract on, 1935, 113: 44.

Hemolysis, acceleration and inhibition of, 1931, 96: 484.

in glycerol solutions, influence of electrolytes on rate of, 1934, 109: 58, in vivo, 1937, 119: 70.

of erythrocytes of amphibia, 1930, 94: 278.

of red blood corpuscles, 1934, 109: 20.

saponin, of erythrocytes, 1929, 91: 1.

shape of erythrocytes in relation to, 1937, 120: 371.

thermic effect of, 1930, 95: 473.

Hemophilic blood, anticoagulant in, 1931, 98: 131.

Hemopoietic effect of cobalt and manganese, 1934, 108: 545.

Hemopoletine in blood serum of anemic animals, 1934, 107: 704.

Hemorrhage, acute, emptying time of stomach after, 1936, 117: 226.

and respiration, 1930, 94: 365.

effect of, on adrenalectomized dog, 1934, 107: 259.

effect of, on homeostasis, 1933, 104: 195.

effect of, on partition of blood stream, 1937, 118: 734.

fluid redistribution in, 1933, 104: 502.

reaction of chronic spinal animals to, 1935, 114: 30.

Hemorrhages, massive, and size of red blood cells, 1933, 103: 407.

Heparin, administration of, 1937, 119: 272.

anticoagulative action of, 1937, 119: 80.

and its relation to thromboplastin, 1936, 115: 317.

Hepatectomized dogs, blood fibrinogen level in, 1930, 94: 144.

Hepatectomy, carbohydrate metabolism after, 1934, 107: 406.

effect of insulin after, 1933, 103: 45.

effect of, on inorganic phosphate of blood, 1935, 113: 136.

effect of, on utilization of fructose in mammals, 1936, 117: 134.

glucose utilization after phloridzin and, 1936, 117: 323.

modified operation, 1930, 94: 615.

utilization of fructose after, 1931, 96: 683.

Hepatic bile, acid-base composition of, 1934, 107: 378, 388, 400.

Hepatic gluconeogenesis, effect of dextrose on, 1936, 116: 32.

Hexamethenamine in dog, renal clearance of, 1936, 115: 706.

Hexose diphosphate, rôle of, in muscle activity, 1930, 92: 107.

Hexosemonophosphate changes in muscle, 1935, 112: 5.

Hexoses, effect of, on human respiratory exchange, 1932, 102: 659.

Hexylresorcinol and alimentary absorption of insulin, 1937, 120: 744.

High frequency current, physiological effects of, 1931, 96: 439.

physiological effects of, 1934, 107: 170.

High frequency currents, physiological effects of, 1932, 101: 194, 203.

Hippopotamus, normal period of submergence for, 1932, 99: 577.

Hippuran, renal excretion of, 1937, 118: 739.

renal excretion of skiodan, diodrast and, 1936, 115: 548.

Histaminase and gastric response to histamine, 1934, 107: 168.

Histamine, action of, on lungs of guinea pig, 1930, 93: 138.

activation of pancreas by peptone and, 1931, 98: 42.

and anaphylactic shock, reactions of rat uterus to, 1934, 108: 416. and intestinal motility, 1930, 95: 527.

as hormone for gastric secretion, 1932, 101: 331.

Histamine-like substance in gastric juice, 1935, 113: 455.

and pilocarpin, gastric secretion after, 1931, 97: 69. erotalin and, physiologic action of, 1930, 92: 705. effect of, on blood sugar, 1934, 108: 424. effect of, on jejunal secretion, 1934, 109: 587. effect of, on partition of blood stream, 1937, 118: 734. effect of, on secretion of pepsin, 1931, 97: 124. inactivation of, 1930, 93: 633. inactivation of, in perfused organs, 1935, 112: 70. innocuousness of, to dog, 1936, 116: 376. response of spleen to, 1936, 117: 701.

vascular responses to, in suprarenalectomized rats, 1931, 97: 571.

Histamine salivary secretion, 1929, 91: 123.

Histamine shock, adrenal medulla and resistance to, 1937, 118: 57.

Histone combinations of protein hormones, 1936, 117: 182.

Homeostasis, studies of, 1933, 104: 172, 184, 190, 195. vapor pressure and temperature, 1934, 107: 70.

Hormonal control of lactation, 1930, 95: 43.

of thyroid activity, 1934, 107: 677. Hormone, adrenal cortical, in interrenal body, 1934, 108: 237.

adrenal cortical, vitamin C and, 1936, 116: 187. cortical, 1931, 98: 144. fat metabolizing, of pancreas, 1936, 117: 175. for gastric secretion, histamine as, 1932, 101: 331. gonadotropic, follicular response to, 1937, 119: 508. growth, and phosphatase activity, 1935, 112: 477. lactogenic, assay of, 1937, 119: 304. lactogenic, effect of, on blood sugar, 1935, 112: 714. male, 1930, 92: 440. male, 1932, 101: 218. male, bio-assay of, 1937, 119: 324. male, effect of, on castration cells, 1932, 101: 239.

male, relation of, to protein metabolism, 1936, 117: 642. mare gonadotropic, fate of, in blood stream, 1935, 112: 21.

melanophore, of hypophysis cerebri, 1935, 113: 534. of adrenal cortex, 1930, 95: 670.

ovarian, and basal metabolism, 1936, 115: 645. ovarian, in experimental menstruation, 1936, 117: 381.

parathyroid, action of, after nephrectomy, 1936, 115: 514. pituitary, and development of female rats, 1932, 102: 355.

pituitary, in cattle, assay of, 1935, 113: 259. produced by chorda tympani stimulation, 1932, 101: 2.

sex, in blood and urine, 1932, 101: 246.

suprarenal cortical, and nitrogen metabolism, 1935, 113: 335. sympathomimetic, sympathin and, 1932, 102: 332.

thyroid, and mechanism of gonad-stimulation, 1937, 120: 486. vasodilatin-free intestinal secretory, 1937, 119: 379.

Hormone action, parathyroid, 1932, 102: 350.

Hormone content of human ovarian tissues, 1930, 92: 127.

Hormone influence on central nervous system, 1932, 100: 533.

Hormone. See Pituitary.

Hormones and vitamins, interrelation of, 1933, 106: 267.

female and male, effects of simultaneous injections of, in capons, 1930, 95: 641.

female sex, of anterior pituitary, 1931, 97: 291.

follicular and corpus luteum, relation of, to progestational proliferation, 1930, 92: 574.

gonadotropic, loss of sensitivity to, 1934, 109: 22.

gonad-stimulating, in immature rats, 1933, 106: 238.

gonad-stimulating, relation of thyroid to, 1934, 108: 498.

influence of, on absorption, 1933, 103: 382.

male sex, isolation of activator of, 1937, 120: 213.

protein, histone combinations of, 1936, 117: 182.

reproductive, and toxaemia of pregnancy, 1934, 107: 128.

sex, in blood serum of mares, 1930, 94: 597. sex, of hypophysis, 1933, 104: 710.

three, from anterior pituitary of cattle, 1935, 113: 8.

H/T ratio in twitch of skeletal muscle, 1935, 110: 552.

Human body, reactions of, to atmospheric humidities, 1937, 120: 288.

Humidities, atmospheric, reactions of human body to, 1937, 120: 288.

Humoral action of vagus substance in blood, 1931, 98: 435.

Humoral control of intestinal secretion, 1935, 111: 145.

Humoral gastro-intestinal inhibition, reflex and, 1937, 120: 750.

Humoral mechanism for peripheral sensory inhibition, 1936, 116: 133.

Hunger and variations in alveolar CO₂, 1937, 119: 7.effect of, on gastric emptying time, 1929, 91: 206.

Hunger contractions, effect of anoxemia on, 1930, 93: 267.

gastric, phlorhizin and, 1930, 92: 690.

inhibition of, by fat, 1933, 105: 81.

inhibition of, from intestinal distention, 1936, 115: 410.

relation of, to blood sugar, 1933, 104: 371.

Hunger diabetes and use of glucose in fasting dog, 1935, 114: 106.

Hunger pain, absence of, after resection of lower two-thirds of stomach, 1933, 105:84.

Hydremia as a factor in anemia of pregnancy, 1936, 115: 69.

blood volume regulation and blood composition in, 1933, 105: 135.

urinary output and regulation of blood volume and composition in, 1936, 116: 23.

Hydrion concentration and edema in perfused rabbit hearts, 1930, 94: 60.

Hydrochloric acid, carbon dioxide and respiration, 1930, 94: 402.

Hydrogen-ion concentration of mammalian muscle, 1934, 107: 539.

Hydrogen ion value in relation to stainability, 1930, 93: 668.

Hydrogen ion values following ingestion of ammonium nitrate, 1930, 93: 697.

Hydrolysis of phosphocreatine and lactic acid production in frog's muscle, 1929, 91:

Hydrostatic factor in venous pressure measurements, 1934, 109: 166.

Hydrostatic pressure and intestinal absorption, 1934, 109: 614.

β-hydroxybutyric acid, influence of dextrose and increased metabolism on utilization of, 1937, 119: 278.

β-hydroxybutyric utilization, increased metabolism and, 1937, 120: 446.

Hyperemia in frog, capillary pressure and, 1931, 98: 704.

reactive, 1934, 108: 486.

Hyperglycemia, emotional, adrenal medullectomy and, 1937, 120: 420.

external secretion pancreas during, 1930, 94: 17.

fat metabolism hormone and, 1934, 109: 436.

reflex, central nervous mechanism of, 1931, 99: 64.

secretion of insulin during, 1930, 94: 13.

Hyperglycemic effect of tobacco smoking, 1935, 113: 13.

Hyperpnea, asphyxial, and sinus caroticus, 1934, 109: 51.

effect of, on hearing, 1935, 112: 519.

reciprocal grading of activation of antagonistic respiratory muscles in, 1937, 119: 317.

Hypertension after injection of extravascular fluid, 1937, 118: 1.

and intracisternal injection of kaolin, 1935, 113: 285.

and renal blood flow, 1936, 116: 616.

coronary flow in, 1936, 114: 609.

experimental, effect of hypophysectomy on, 1937, 120: 238. experimental, extrinsic renal nerves and, 1935, 112: 166.

Hyperthermia and fat metabolism, 1930, 95: 417.

Hyperthyroid heart, response of, to epinephrine, 1935, 112: 227.

Hyperthyroidism and carbohydrate metabolism, 1936, 117: 6.

and gastric motility, 1929, 91: 291.

and gastric motility, 1933, 104: 624.

and vitamin B requirement, 1933, 105: 146.

blood changes in, 1932, 99: 469.

effect of, on sex maturity in rat, 1933, 104: 247.

experimental, effect of yeast on survival period of albino rats in, 1936, 116: 58.

experimental, excretion of iodine in, 1933, 105: 3.

experimental, glycemic factors in, 1930, 92: 672.

experimental, iodine excretion in, 1933, 103: 699.

experimental, tachycardia of, 1931, 98: 357.

reflex response in, 1930, 92: 457.

Hyperventilation, effect of, on knee jerk, 1932, 102: 305.

Hypervitaminosis D and blood pressure in dogs, 1933, 105: 294.

Hypoglycaemia hypophysiopriva, 1934, 109: 475.

Hypoglycemia after experimental hypothalamic lesions, 1935, 113: 80.

and anoxemia, relation between, 1937, 119: 341.

effect of, on metabolism of brain, 1937, 119: 335.

insulin, blood sugar recovery after, 1937, 120: 435.

insulin, circulatory changes with, 1935, 111: 440.

insulin, electrencephalogram during, 1937, 120: 559.

insulin, mechanism of convulsions in, 1937, 118: 174.

of carbon tetrachloride poisoning, response to calcium medication in, 1930, 93: 674.

resistance of spinal animals to, 1934, 107: 577.

Hypoglycemic dogs, posture and anhydremia in, 1934, 109: 422.

Hypoglycemic phase following normal dextrose tolerance curve, 1934, 109: 101. of dextrose tolerance curve, 1934, 110: 4.

Hypophyseal and ovarian hormones, interaction of, 1932, 102: 241.

Hypophyseal complex, gonad-, in estrin-injected rabbits, 1936, 115: 229.

Hypophyseal extract, anterior, effect of, on serum calcium and phosphorus, 1937, 118: 588.

in advanced lactation, 1932, 100: 137.

Hypophyseal extracts, effect of, on heart rate and blood sugar, 1930, 95: 605.

Hypophyseal-gonad complex, effect of oestrin on, 1935, 110: 681.

Hypophyseal hormones, anterior, prolan and, 1932, 100: 141.

transmission of, to fetus, 1933, 106: 323.

Hypophyseal-like substance in urine, 1934, 108: 22.

Hypophysectomized, partially, dogs, metabolism of, 1933, 106: 299. and depancreatized dog, 1933, 105: 4.

```
1937.
```

: 58.

30,

37,

Hypophysectomized animals, prolan in, 1932, 100: 157.

Hypophysectomized chimpanzee, 1936, 116: 106.

Hypophysectomized dog, response of, to epinephrine, 1935, 113: 306.

Hypophysectomized frogs, water metabolism in, 1935, 112: 397.

Hypophysectomized mice, maternal behavior of, 1937, 120: 167.

Hypophysectomized pancreatectomized monkey, 1935, 113: 94.

Hypophysectomized rabbits, effect of corpus luteum extracts in, 1934, 109: 87.

experiments on, 1933, **105**: 34. ovarian stimulation in, 1938, **104**: 44.

uterine motility in, 1933, **104**: 331.

Hypophysectomized rats, carbohydrate levels in, 1937, 118: 196.

effects of androgenic substances in, 1937, 119: 121.

resistance to cold in, 1933, 104: 489.

Hypophysectomized tadpoles, effect of adenotropic extract on, 1937, 118: 452.

Hypophysectomy and composition of weight loss, nitrogen partition of tissues after, 1936, 116: 2.

and experimental hypertension, 1937, 120: 238.

and mechanism of gonad stimulation, 1937, 120: 486.

degeneration of the supra-optic nucleus after, 1937, 119: 326.

effect of, on gluconeogenesis, 1935, 114: 110.

in pregnant rabbits, 1933, 104: 204.

lipid metabolism after, 1936, 116: 543.

liver and muscle glycogen after, 1936, 114: 468.

Hypophysis, acoustic sensitivity after x-radiation of, 1937, 119: 13.

action of blood sugar raising principle extracted from, 1934, 109: 97.

and adrenal cortex, relation of, to blood sugar, 1937, 120: 649.

and carbohydrate metabolism, 1935, 112: 493.

and carbohydrate metabolism, 1937, 118: 15.

and menstruation, 1936, 116: 49.

and ovaries, relation of, to uterine bleeding, 1932, 100: 8.

and ovary, effect of thyreotropic pituitary extracts on, 1934, 109: 105.

and urine secretion, 1935, 113: 578.

anterior and posterior lobes of, and diabetes insipidus, 1934, 110: 439.

anterior, hormones of, 1931, 98: 511.

anterior, nervous control of, 1936, 116: 54.

blood acetone after administration of, 1936, 115: 424.

effect of pregnancy urine on, 1935, 111: 312.

effects of separation of, from hypothalamus, 1936, 117: 467.

enhanced appetite and adiposity after removal of posterior lobe of, 1936, 116: 90.

in adrenal insufficiency, 1935, 112: 310.

in relation to estrous cycle and organ weights, 1935, 111: 392.

indispensability of, to Staub-Traugott phenomenon, 1936, 116: 148.

innervation of, and diabetes insipidus, 1937, 119: 348.

lesions in, after glucose injection, 1936, 116: 194.

of albino rat, cell changes induced in, by repeated exposure to illuminating gas, 1936. 116: 145.

positive action of extracts of, on lactation, 1930, 95: 43.

posterior, not essential in parturition, 1932, 99: 345.

rat, pressor and oxytocic principles of, 1934, 107: 220.

relation of, to prolan-induced ovulation, 1933, 106: 48.

sex hormones of, 1933, 104: 710.

Hypophysis cerebri, melanophore hormone of, 1935, 113: 534.

Hypophysis metabolism, stimulation of, by theelin, 1937, 120: 154. Hypothalamic control of sympathetic rhythms, 1936, 116: 15.

Hypothalamic lesions and carbohydrate metabolism, 1936, 114: 562.

experimental, and blood sugar, 1936, 114: 555.

Hypothalamus and gastro-intestinal motility, 1935, 112: 214.

and metabolism of chloride and sugar, 1935, 112: 504.

anterior, rôle of, in temperature regulation, 1936, 117: 562.

as a sympathetic center, 1936, 115: 245.

autonomic reactions induced by electrical stimulation of, 1934, 109: 85.

effects of lesions of, in cats, 1934, 109: 57.

effects of separation of hypophysis from, 1936, 117: 467.

in waking animal, electrical stimulation of, 1935, 113: 74.

regulation of circulation in, 1934, 110: 137.

stimulation of, in chronic hemidecorticated monkeys, 1937, 119: 301.

stimulation of, liberation of adrenin and sympathin induced by, 1937, 119: 615.

Hypothermia, progressive, cardiac changes during, 1937, 118: 71.

Hypothyroidism, blood changes in, 1932, 99: 469.

reflex response in, 1930, 92: 457.

Hysterectomy and life-span of corpus luteum, 1933, 103: 600.

and mammary gland development, 1937, 120: 300.

and voluntary activity in white rat, 1931, 97: 519.

I

Ileo-cecal sphincter, 1930, 93: 658.

of dog, 1931, 96: 494.

Imagination, effect of, on electrical changes in neuromuscular regions, 1930, 94: 22.

Imbibition of water by frogs, effect of pituitary on, 1936, 115: 275.

Immunity to rattlesnake venom, 1930, 92: 345.

Impotence of male rodent after sympathectomy of genital organs, 1931, 96: 321.

Impulse, spread of, in mammalian ventricle, 1937, 120: 635.

Impulse transmission through sympathetic ganglion, 1937, 119: 221.

Inanition, prolonged, and heart/body weight ratio, 1936, 116: 635.

Indole-acetic, indole-butyric and alpha-naphthalene-acetic acids on plants and animals, comparison of, 1937, 119: 369.

Infection, local, lymph drainage and, 1935, 112: 74.

Infra-red radiation from living organisms, measurement of, 1934, 109: 105.

Inhibition as accompaniment of knee jerk, 1934, 109: 181.

excitation and, in spinal center, 1930, 95: 142.

external, of conditioned reflexes, 1934, 108: 608.

from the cerebral cortex, 1935, 113: 663.

in color contrast, 1932, 101: 43.

of stomach from intestinal distention, 1936, 115: 410.

peripheral, in arthropods, 1929, 91: 19.

peripheral sensory, humoral mechanism for, 1935, 113: 65.

reflex and humoral gastro-intestinal, 1937, 120: 750.

reflex, of knee-jerk, 1937, 120: 340.

reversible, of muscle glycolysis, 1937, 120: 522.

Wedensky, curarization, fatigue and, 1937, 119: 236.

Inhibitory action of vasodilator nerves, 1936, 117: 457.

Innervation of large bowel, 1930, 94: 501.

of renal parenchyma, 1931, 96: 40.

of smooth muscle, 1930, 92: 453.

of uterus, motor sympathetic, 1935, 112: 640.

plurisegmental, of frog muscle, 1930, 94: 604.

Innervation ratios, a study in, 1931, 96: 296.

Inspiratory augmentation of proprioceptive reflexes, 1931, 97: 329.

Insulin, absorption of, from gastro-intestinal tract, 1932, 101: 31.

absorption of, from gastro-intestinal tract, 1933, **104**: 636.

absorption of, from intestinal loops, 1937, 120: 733.

action of, on motility of gastro-intestinal tract, 1930, 91: 467, 475, 482, 488.

action of, on motility of gastro-intestinal tract, 1930, 95:7.

action of, on motility of the stomach, 1933, **104**: 90. administration of massive doses, 1932, **101**: 2.

analysis of gastric tonus and hypermotility after, 1931, 96: 54.

and gastric atony in vitamin B deficiency, 1930, 91: 547.

and gastric motility, 1937, 120: 554.

and posture, effect of, on hypoglycemic dogs, 1934, 109: 422.

and sugar in isolated heart, 1930, 92: 144.

and the adrenal gland, 1937, 119: 539.

antagonism of, by posterior pituitary extracts, 1930, 93: 682.

antiketogenic action of, 1936, 116: 322.

antiketogenic action of glucose in absence of, 1937, 118: 290.

assay of, and blood sugar level, 1934, 107: 284.

atypical responses of rabbits to, 1933, 106: 273.

augmentation of physiologic response to, 1935, 112: 172.

blood sugar and subcutaneous lymph after, 1933, 105: 674.

dextrose tolerance curves in absence of, 1936, 114: 648.

divided dosage of, 1937, 119: 149.

effect of, after removal of liver and pancreas, 1933, 103: 45.

effect of diminution of barometric pressure on sensitivity of rats to, 1936, 116:61.

effect of, on glucose tolerance in phlorhizinized dogs, 1932, 101: 166.

effect of, on heart rate, 1931, 96: 311.

effect of, on homeostasis, 1933, 104: 190.

effect of splanchnic resection on metabolic response to, in severe diabetes, 1936, 116: 76.

effectiveness of, in injections of equal unitage, 1934, 109: 20.

effects of, on blood fat, 1931, 97: 648.

growth-rate of albino rats with and without, 1937, 119: 365.

hexylresorcinol and alimentary absorption of, 1937, 120: 744.

in tissues other than the pancreas, 1932, 100: 285.

influence of, on motility of urinary bladder, 1932, 100: 1.

intravenous, blood sugar after, 1937, 119: 531.

liver function and blood sugar response to, 1934, 110: 488.

placental transmission of, 1930, 92: 271.

protamine, intravenous administration of, 1936, 117: 453.

relation of, to liver glycogen, 1932, 101: 10.

relation of, to liver glycogen, 1933, 103: 5.

response of phlorhizinized dogs to, 1932, 101: 185.

response of rabbit to, 1936, 114: 538.

response of sympathectomized animals to, 1931, 98: 467.

secretion of, during hyperglycemia, 1930, 94: 13.

sensitivity to, 1934, 109: 95.

susceptibility to, in hypophysectomized dogs, 1936, 116: 6.

: 615.

: 22.

ani-

L

system, tannic acid, properties of, 1936, 116: 239.

time curve after, 1934, 110: 384.

tolerance of albino rat for, 1937, 119: 364.

Insulin convulsions after stellate ganglionectomy, 1937, 119: 383.

Insulin hypoglycemia, blood sugar recovery after, 1937, 120: 435.

circulatory changes with, 1935, 111: 440.

electrencephalogram during, 1937, 120: 559.

mechanism of convulsions in, 1937, 118: 174.

Insulin induced hypoglycemia, resistance of spinal animals to, 1934, 107: 577.

Insulin requirement of depancreatized dogs, 1937, 120: 345.

Insulin secretion after epinephrine injection, 1935, 111: 223.

pilocarpine and, 1934, 107: 526.

Insulinization of non-diabetes, effects of, 1933, 105: 79.

Interrenal body, extraction of adrenal cortical hormone from, 1934, 108: 237.

Intestinal absorption and permeability, influence of hormones and drugs affecting autonomic nervous system on, 1933, 105: 36.

anoxemia and, 1936, 117: 309.

fate of levulose during, 1932, 101: 570.

influence of nervous stimulation on, 1933, 106: 283.

hydrostatic pressure and, 1934, 109: 614.

K-Ca antagonism in, 1933, 106: 318.

lyotropic series on, 1934, 110: 490.

of water, anoxemia and, 1936, 115: 239.

of amino acids, 1936, 116: 78.

Intestinal activity, balloon method in study of, 1935, 111: 564.

under exteriorized colonic mucosa, 1934, 110: 123, 139.

Intestinal colon response to various stimuli, method for studying, 1936, 116: 150.

Intestinal contents, reaction of, in chickens, 1932, 101: 2.

Intestinal distention, inhibition of stomach from, 1936, 115: 410.

Intestinal epithelium, chloride absorption by, 1936, 114: 676, 681.

Intestinal excretion of nitrogen and fat, 1932, 101: 56.

Intestinal jejunum, distribution of a chemical excitant for glands of, 1936, 116: 112.

Intestinal juice, analysis of, 1935, 113: 101.

effect of peptones on secretion of, 1935, 113: 568.

influence of drugs and extracts on, 1934, 109: 79.

Intestinal juice enzymes, 1933, 104: 659.

Intestinal loop, propulsive activity of, 1934, 108: 151.

transplanted, 1934, 109: 83.

Intestinal loop absorption of cystine, methionine and cysteic acid, 1936, 115: 188.

Intestinal loops, absorption of insulin from, 1937, 120: 733.

effect of barbiturates on absorption of glucose from, 1934, 109: 109.

isolated, responses following distention of, 1933, 105: 49.

Intestinal motility, histamine and, 1930, 95: 527.

in horse, 1936, 116: 39.

Intestinal movements, 1933, 105: 65.

in unanesthetized human subject, 1934, 109: 109.

Intestinal mucosa in conversion of levulose to dextrose, 1932, 101: 16.

Intestinal muscle and nerves, reaction of, to constant and interrupted currents, 1931, 99: 179.

Intestinal obstruction, 1931, 97: 532.

1932, 101: 55.

Intestinal organs, reflex inhibition of knee jerk from, 1937, 120: 340.

Intestinal parasites, action of extracts of, 1931, 98: 18.

Intestinal secretion, gastric acid inhibition of, 1937, 118: 766.

humoral control of, 1935, 111: 145.

Intestinal segment, transplanted, 1933, 105: 81.

Intestinal tract, absorption of glucose from, 1933, 105: 69.

Intestinal trauma, effect of, on partition of blood stream, 1937, 118: 734.

Intestinal villi and their circulation, 1934, 109: 108.

functional activity of, 1934, 109: 387.

Intestinal wall, passage of materials through, 1931, 99: 209.

Intestinal. See Gastro-intestinal.

Intestine, absorption of fluid from, 1932, 101: 434.

absorption of fluid from, 1933, 105: 78.

absorption of glucose from, 1933, 104: 700.

absorption of tyramine from, 1932, 99: 317.

action of acetylcholine on, 1933, 104: 433.

and blood, ionic gradients in function of, 1936, 116: 157.

changes during rhythmic contraction of, 1932, 102: 683.

cholecystokinin in, 1930, 94: 285.

circulatory rate and absorption in, 1934, 108: 469.

colon motility, apparatus used in study of, 1936, 116: 153.

control of, by decentralized ganglion, 1937, 118: 780.

effect of epinephrine and parasympathetic drugs on, 1932, 100: 313.

effect of psyllium seeds on motility of, 1932, 101: 71.

excretion of calcium through, 1930, 93: 544.

fat and pH of contents of, 1936, 114: 603.

fistulization of, at any level, 1936, 116: 33.

ileum, dog's effect of distending pressures on activity of, 1936, 116: 152.

large, excitation and inhibition in, 1935, 111: 209.

large, in normal dogs, volume changes of, 1935, 113: 126.

large, motor activity of, 1931, 96: 667.

large, motor activity of, 1931, 99: 87.

large, motor activity of, 1932, 100: 362.

large, motor activity of, 1932, 101: 511.

large, of ruminant, motility of, 1937, 119: 299.

of diabetic dogs, synthesis of fat by, 1935, 114: 132.

of normal and diabetic dogs, synthesis of fatty acid esters of glycerol by, 1935, 113: 46.

origin of automaticity of, 1933, 106: 682.

passage of liquids into, 1932, 102: 276

passage of urea between blood and, 1932, 101: 391.

secretion of ammonia by, 1935, 113: 62.

small, chemical transmission of vagal effects to, 1935, 114: 100.

small chemistry of contents of, 1935, 113: 75.

small, conduction in, 1930, 94: 448.

small, movements of, 1934, 107: 641.

spiral propulsion of bolus in, 1934, 109: 483.

variations of rhythmic contraction in, 1933, 104: 67.

See Colon.

Intestines, psyllium action on, 1935, 113: 91.

Intracranial pressure, effect of, on knee jerk, 1929, 91: 210.

positional alterations of, 1933, 104: 681.

Intracranial pressures, relations of, 1933, 105: 266.

ecting

112.

31,

Je

Je

Intrapleural pressure, factors altering, 1930, 93: 636.

Intravenous administration of protamine insulin, 1936, 117: 453.

Intravenously injected substances, elimination of, 1935, 114: 240.

Inulin and creatinine excretion by dog, 1936, 114: 362.

and creatinine excretion in M. rhesus, 1936, 116: 28. and phenol red, excretion of, by chicken, 1937, 119: 384.

creatinine, xylose and urea, exerction of, in rabbit, 1935, 113: 354.

diffusion constant and molecular weight of, 1936, 116: 19.

distribution of, in blood, 1935, 113: 629.

excretion of, by dog, 1935, 112: 405.

molecular weight of, and mode of renal excretion in Amphibia, 1936, 116: 160.

Iodides, alkali, action of, 1934, 109: 450.

Iodine, effect of thyroid and, on liver glycogen, 1933, 105: 103.

in thyroglobulin, physiological activity of, 1932, 101: 583.

Iodine excretion in experimental hyperthyroidism, 1933, 103: 699.

in pregnancy, basal metabolism and, 1935, 113: 221.

Iodine ingestion and reaction to thyroxin, 1930, 92: 568.

Iodine intake and thyreoglobulin content of thyroid gland, 1934, 107: 513.

Iodoacetic acid and oxygen consumption of muscle, 1933, 103: 94.

Iodothyroglobulin, immunity to and action of, 1937, 120: 121.

Ion, gelatin, average valence of, determined by modified theory of membrane equilibrium, 1930, 93: 634.

Ion antagonism, dependence of, on permeability in SCN-contracture, 1931, 96: 477.

Ion effects on muscular fatigue, 1932, 100: 452. Irradiated ergosterol, injections of, 1931, 96: 21.

Irradiation by mercury vapor arc, effect of, on activity of pepsin and trypsin, 1930,

effect of iron and, on anemia, 1934, 108: 91.

effect of, on parathyroids of chicks, 1930, 94: 91.

of human skin, 1929, 91: 58.

reducing power of blood after, 1930, 93: 146.

solar, effect of, on growth of chicks, 1930, 94: 84.

spinal, and cutaneous sensations, 1931, 97: 491.

ultraviolet, and magnesium content of rats, 1930, 92: 651.

Iris, chemical analysis of, 1933, 103: 270.

stimulation of, by adrenin, 1932, 102: 71.

Iris sphincter tone in rat, 1931, 98: 276.

Iron and aluminum salts, effects of feeding, 1935, 111: 118.

and irradiation, effect of, on anemia, 1934, 108: 91.

and other elements, polycythemia in relation to, 1934, 109: 316.

colloidal, utilization of, in nutritional anemia, 1937, 118: 211.

exerction and functional localization of, 1933, 105: 30.

inorganic, in anemia of pigeons, 1930, 93: 156.

serum, in experimental anemia, 1930, 92: 196.

Iron utilization, rôle of dietary copper in, 1937, 120: 423.

Ischemic myocardial contraction, 1935, 113: 677.

Isometric contractions of muscle in situ, 1932, 102: 476.

T

Jacobson's organ, function of, 1929, 91: 201.

Jaundice, anemia in, 1930, 91: 409.

calcium in serum in, 1930, 92: 630.

Jaw-jerk and its afferent path, 1934, 108: 50.

Jejunal glands, adaptive secretion of, 1936, 116: 563.

Jejunal secretion, effect of histamine on, 1934, 109: 587.

Jejunal ulcer, experimental, duodenal secretions and, 1936, 117: 79.

Judgments of duration, physiological control of, 1934, 109: 54.

K

Kaolin, hypertension and intracisternal injection of, 1935, 113: 285.

Ketogenesis, studies in, 1937, 119: 288.

Ketogenic-antiketogenic ratio, 1933, 105: 50.

Ketone bodies, carbohydrate and utilization of, 1937, 119: 734.

Ketone utilization, increased metabolism and, 1937, 120: 446.

Ketosis, adrenalectomy and liver fat in, 1937, 118: 525.

in normal and Eek fistula dogs, 1935, 113: 10.

in primates, 1936, **116**: 61.

in rat, 1934, 109: 41.

influence of adrenalectomy on, 1937, 118: 184.

Kidney, aglomerular, secretion pressure of, 1931, 97: 66.

amphibian, excretion of phosphate by, 1937, 118: 167.

amphibian, urea excretion by, 1937, 118: 153.

blood flow of, 1932, 99: 696.

blood flow of, 1936, 116: 74.

chlorokinetic depressor substance in, 1935, 113: 70.

clearance of sodium ferrocyanide by, 1935, 113: 611, 629.

dog's, lymph formation in, 1929, 91: 157.

effect of explanting one, and removal of other, 1934, 109: 329.

extraction of urea by, 1937, 119: 483.

frog, effects of CO2 on, 1935, 111: 64.

frog, gaseous metabolism of, 1935, 110: 539.

frog, oxygen tension and, 1935, 111: 75.

glomerular and aglomerular function of, 1930, 94: 1.

mammalian, secretion of inulin by tubule of, 1936, 116: 128.

mammalian, secretion of phenol red by, 1931, 99: 77.

mechanism of poisoning action of phlorhizin on, 1936, 116: 146.

method for explantation of, 1934, 109: 324.

molecular concentration of glomerular fluid of, 1932, 101: 102.

perfused, ammonia excretion by, 1937, 120: 365.

prevention of hypertrophy and limitation of normal pulsation of, by casts, 1931, 97: 563.

rabbit, tubular elimination of phenol red in, 1934, 108: 355.

relation of particle size to dye excretion by, 1930, 93: 363.

response of, to acoustic stimuli, 1930, 91: 499.

See Renal.

Kidney enlargement, vitamins B and G in, 1931, 97: 210.

Kidney function, effect of rigid casts on, 1932, 101: 573.

in man, post-exercise suppression of, 1936, 116: 168.

Kidney response to limitation of mineral salts in ration, 1931, 97: 561.

Kidney tissue, lactic acid formation in, 1932, 101: 469.

relation of urea excretion to mass of, 1932, 100: 402.

Kidney tubule, reabsorptive function of, 1930, 93: 574.

Kidney tubules in tissue culture, inhibition of secretory activity of, 1934, 109: 19.

Kidney vessel ligation, effect of, on glucose tolerance in phlorhizinized dogs, 1932, 101: 166.

: 160.

ilib-

930,

La

La

La

La

Kidney volume, effect of hemoglobin on, 1931, 98: 181.

Kidney volume responses to epinephrine, 1937, 119: 374.

Kidney work due to urea excretion a factor in specific dynamic action, 1935, 113: 37.

Kidneys, frog, asphyxia of, 1934, 108: 177.

Kinetics of excretion and utilization of xylose, 1937, 119: 429.

Knee jerk, inhibition as accompaniment of, 1934, 109: 181.

reflex inhibition of, from intestinal organs, 1937, 120: 340.

relation of respiratory conditions to, 1932, 102: 305.

stature and latent period of, 1930, 92: 214.

studies on, 1929, 91: 210.

threshold stimulus of, as index to physical fitness, 1936, 116: 161.

Knee-jerk, mental activity and height of, 1931, 97: 658.

Kymographic registration, improvements in, 1935, 113: 104.

T

Labyrinth, interaction of cortex and, 1934, 109: 693.

Labyrinthine, head-nystagmus, retinal stimuli and; 1930, 95: 465.

Lactate formation in muscle, 1932, 102: 448.

Lactating mammary gland, retrogression of, 1937, 118: 528.

Lactating women, plasma protein in, 1935, 113: 235.

Lactation, a belated effect of sympathectomy on, 1931, 97: 319.

advanced, hypophyseal extract in, 1932, 100: 137.

and exercise, effect of, on involution of uterus, 1936, 117: 487.

as influenced by different sources of protein in diet, 1930, 93: 642.

effect of estrin injections on, 1930, 95: 630.

gestation and, weight of mothers during, 1931, 97: 626.

hormonal control of, 1930, 95: 43.

in adrenalectomized rats, 1936, 115: 588.

in diabetes, 1933, 106: 716.

in male guinea pig, 1933, 103: 374.

inhibition of, with oestrin, 1933, 103: 356.

nervous control of, 1934, 107: 535.

pregnancy and, in extirpation diabetes, 1936, 115: 480.

reproduction and, diet in relation to, 1931, 96: 139.

reproduction and, relation of adrenal cortex to, 1936, 115: 627.

Lactation mice, effect of pregnancy urine on, 1933, 103: 30.

Lactic acid, absorption of, by heart muscle, 1931, 98: 244.

blood and muscle, in steady state, 1937, 118: 697.

blood, under high oxygen pressure, 1932, 102: 439.

effect of, on action potential of nerve fibers, 1931, 96: 613.

in blood and tissues after bicarbonate injection, 1933, 106: 134.

in blood and tissues after injection of sodium bicarbonate, 1933, 105: 43.

in body fluids, determination of, by iodine pentoxide, 1936, 116: 65.

in excised liver tissue, 1932, 101: 236.

in medullated nerve, 1933, 106: 339.

in nerve metabolism, 1933, 104: 291.

in rest and work at high altitude, 1936, 116: 367.

of blood, sugar and, following burns, 1931, 96: 35.

oxygen debt and, in muscular contraction, 1933, 106: 689.

Lactic acid accumulation in sugar non-irritability, 1932, 101: 52.

in various tissues, 1932, 99: 702.

13:37.

Lactic acid cycle in excised mammalian muscle, 1931, 97: 559.

Lactic acid formation in brain and kidney, 1932, 101: 48, 469.

Lactic acid metabolism of muscles, 1934, 107: 667.

Lactic acid production on incubation of glands, 1929, 91: 172.

Lactic acid removal after muscular exercise, 1934, 107: 681.

from body during exercise, 1934, 108: 341.

in exercise, rate of, 1937, 118: 457.

Lactic acid utilization after hepatectomy, 1932, 101: 12.

Lactogenic hormone, effect of, on blood sugar, 1935, 112: 714.

of anterior pituitary, 1937, 119: 303.

Laminar corticology, 1934, 109: 30. Lapicque's conversion factor, 1936, 114: 620.

Lecithin, activity of, in blood coagulation, 1930, 91: 423.

and NaCL, effect of, on blood sugar, 1933, 104: 344.

and pancreas, liver fat of depancreatized dogs fed, 1935, 110: 545.

calorigenic action of, 1932, 100: 597.

calorigenic action of, 1932, 101: 45.

in diet of depancreatized dog, 1931, 98: 74.

Lethal reduction of body temperature, 1934, 109: 447.

Lens protein, effect of ultraviolet radiation on, 1935, 113: 538.

Leucocyte changes in mother following death of fetus, 1932, 101: 23.

Leucocyte count at reduced oxygen tensions, 1935, 113: 166.

device for increasing accuracy of, 1934, 109: 17.

effect of reduced atmospheric pressure on, 1935, 113: 98.

Leucocyte counts, errors in, 1935, 113: 416.

Leucocyte variations after sympathectomy, 1931, 98: 394.

with age in rat, 1934, 108: 324.

Leucocytes, circulating, physical activity and, 1935, 113: 430.eosinophil, in female endocrine complex, 1936, 117: 250.

Leucocytosis, digestive, 1932, 101: 37.

Leucocytosis question, digestive, 1932, 100: 351.

Leucopenia, emotional, in rabbits, 1936, 117: 571.

Levulose, dextrose and, relative absorption rates of, 1932, 101: 565.

fate of, during intestinal absorption, 1932, 101: 570.

Light, absence of, oestrous activity and, 1934, 109: 307.

effect of, on thyroid gland of rat, 1935, 113: 659.

physiological action of, 1930, 93: 146.

ultra-violet, penetration of, into human skin, 1930, 93: 629.

Light effects on frogs, differentiation between, 1934, 109: 605.

Light penetration through the human skin, 1931, 97: 86.

Light reflex after destruction of superior colliculus, 1935, 111: 91.

Limulus polyphemus, potential analysis of pacemaker mechanism in, 1936, 117: 686.

Linearity criterion and partitional calorimetry, 1936, 116: 656.

Linguo-maxillary reflex, 1930, 94: 118.

Lipase, pancreatic, specificity of, 1932, 100: 266.

Lipid, fecal, in relation to dietary fat, 1934, 107: 49.

Lipid components of thoracic duct lymph, 1934, 110: 342.

Lipid metabolism after hypophysectomy, 1936, 116: 543.

Lipids, carbohydrates and, in perfused liver, 1933, 103: 79.

of sclera, cornea, choroid and iris, 1934, 110: 182.

Lipoid distribution, effect of pitressin and pituitrin on, 1932, 102: 402.

Lipoid phosphorus in developing chick, 1936, 115: 287.

Liv

Liv

Lipoids, permeability of blood capillaries to, 1934, 109: 467.

Liquids, passage of, from stomach into intestine, 1932, 102: 276.

Liver and adrenals, differential calorigenic action of, 1931, 97: 527.

and gall-bladder function, 1932, 100: 433. and gall-bladder function, 1933, 103: 265.

and muscle glycogen after hypophysectomy, 1936, 114: 468.

and placenta, fetal, growth and glycogen content of, 1935, 113: 31.

and rate of blood flow, 1937, 119: 346.

and respiratory metabolism of diabetes, 1933, 105: 306.

bile formation after denervation of, 1931, 98: 602.

bile pigment formation in, 1931, 97: 654.

bile secretion after denervation of, 1931, 98: 612.

blood changes after denervation of, 1931, 98: 610.

blood flow and gaseous metabolism of, 1936, 117: 328.

carbohydrate metabolism after denervation of, 1931, 98: 605.

detoxicating function of, 1931, 96: 696.

carbohydrate metabolism after removal of, 1934, 107: 406.

diurnal cycle in, 1932, 102: 673.

diurnal cycle in, 1933, 105: 177.

during pregnancy, diurnal changes in, 1934, 108: 567.

effect of adrenalectomy and hypophysectomy on fatty infiltration of, after total pancreatectomy in the cat, 1936, 116: 96.

fetal, rhythmic changes in, after feeding, 1935, 111: 590.

glycogenolytic function of, in absence of its assumed humoral and nervous control, 1937, 119: 299.

hemoglobin producing factors in, in anemia, 1934, 108: 270.

in diet, effect of, on growth and reproduction, 1933, 105: 262.

influence of, on formation and destruction of bile salts, 1936, 116: 214.

lactic acid and acid-base equilibrium, 1932, 99: 365.

normal and damaged, effect of fat ingestion on, 1931, 97: 131.

of white rats, effect of cinchophen on, 1931, 97: 537.

perfused, carbohydrates and lipids in, 1933, 103: 79.

physiology of, 1930, 92: 92.

physiology of, 1931, 96: 683, 696, 709.

physiology of, 1932, 100: 167.

physiology of, 1933, 103: 45.

physiology of, 1933, 104: 242.

physiological production of sympathin in, 1934, 110: 247.

regulation of blood lipase and diastase to, 1931, 97: 515.

relation of, to utilization of levulose, 1930, 93: 671.

removal of, in one-stage operation, 1932, 101: 73.

rôle of, in destruction of nicotine, 1932, 100: 167.

rôle of, in formation of lymph, 1931, 96: 709.

rôle of pancreas and, in dextrose tolerance, 1934, 109: 155.

secretory activities of, 1934, 107: 94.

secretory pressure of, 1933, 106: 247.

subtotal ligation of arteries to, 1937, 119: 340.

utilization of galactose after removal of, 1935, 111: 483.

Liver amylase: effect of nutrition and of hormones, 1935, 111: 130.

Liver circulation, vasomotor control of, 1930, 95: 20.

Liver extract, action of, in parathyroid deficiency, 1930, 92: 35.

Liver damage, dextrose tolerance curve and 1935, 112: 649.

Liver degeneration in departereatized dog, relation of pancreatic juice to, 1936, 117: 166.

Liver fat, adrenalectomy and, 1937, 120: 361.

adrenalectomy and, in ketosis, 1937, 118: 525.

anterior pituitary extracts and, 1936, 116: 24.

cholesterol feeding and, 1933, 105: 6.

of departreatized dogs fed lecithin and pancreas, 1935, 110: 545.

pancreas extract and deposition of, 1937, 119: 783.

Liver feeding and blood sugar of depancreatized dogs, 1930, 94: 548.

fetal, blood of human subjects during, 1933, **104**: 364. in anemia, 1935, **113**: 467.

in anemia, 1955, 113. 407

total

vous

Liver function and blood sugar response to insulin, 1934, 110: 488. of dogs, 1932, 102: 148.

Liver functions, vagal control of, 1937, 118: 345.

Liver glycogen, effect of thyroid and iodine on, 1933, 105: 103.

following epinephrin injections, 1935, 111: 223.

muscle and, effect of epinephrine on, 1931, 97: 467.

relation of insulin to, 1933, 103: 5. storage of water with, 1932, 101: 72.

Liver glycogen changes before and after abdominal denervation, 1934, 109: 12.

Liver glycogen storage in diabetic animals, 1933, 103: 18.

Liver hydration of neurogenic origin, 1933, 104: 127.

Liver influence on galactose and levulose tolerance, 1933, 105: 85.

Liver removal, effect of, on formation of ammonia, 1930, 92: 92.

glucose utilization after phloridzin and, 1936, 117: 323.

Liver response to glucose by mouth, 1937, 120: 52.

Liver tissue, excised, lactic acid in, 1932, 101: 236.

Livers, normal, hemoglobin production in, 1934, 108: 279.

of dogs, changes in vitamin A and carotene contents of, after depancreatization or ligation of pancreatic ducts, 1936, **116**: 125.

Locomotion, reversed, in salamanders with interchanged right and left fore limbs, 1936, 116: 158, 159.

Lung, rôle of, in metabolism of fat, 1930, 93: 521.

Lung capillaries, blood flow in, 1934, 109: 236.

Lung extract and blood clotting, 1934, 107: 63.

Lungs, gas equilibria in, at high altitudes, 1936, 115: 530.

mammalian, exchange of body fluids in, 1930, 93: 600, 616.

of guinea pig, action of histamine on, 1930, 93: 138.

vital capacity of, at low barometric pressure, 1932, 100: 426.

See Pulmonary.

Lymph and edema fluid from regions with blocked lymph drainage, 1934, 109: 35. and tissue fluid, identity of, 1931, 97: 518.

blood and, rapidity of interchanges between, 1931, 98: 378.

cervical, CO₂ combining power and pH of, 1935, 112: 699.

chemical composition of, 1933, 103: 553.

dog blood and, colloid osmotic pressure of, 1931, 98: 70.

dog, cell content of, 1931, 97: 52.

effect of hemorrhage on, 1932, 101: 223.

effect of hyperemia on, 1932, 101: 223.

flow and protein content of, at different ages, 1937, 118: 354.

lacteal, proteins in, 1932, 101: 421.

mammalian, protein content of, 1931, 97: 32.

protein and osmotic pressure of, 1934, 110: 174. relation of, to tissue fluid, 1931, 97: 32. rôle of liver in formation of, 1931, 96: 709. sedimentation of erythrocytes suspended in, 1932, 99: 424. subcutaneous, blood sugar and, after insulin, 1933, 105: 674. subcutaneous, flow and protein content of, 1932, 101: 223, 612. subcutaneous, sugar in, 1933, 105: 47. thoracic duct, lipid components of, 1934, 110: 342.

Lymph capillaries in web of frog, 1932, 100: 642.

Lymph collection, quantitative method for, 1936, 116: 49.

Lymph colloids from lacteals, osmotic pressure of, 1932, 101: 101.

Lymph drainage and local infection, 1935, 112: 74.

Lymph edema and elephantiasis, experimental production of, 1934, 109: 30. Lymph flow from gastro-intestinal tract, effect of heat on, 1937, 119: 197.

from gastro-intestinal tract, effect of heat on blood and, 1937, 119: 197.

Lymph formation and circulation in frog, 1930, 95: 79, 91, 98.

during glandular activity, 1935, 112: 657. in dog's kidney, 1929, 91: 157.

Lymph-heart as facultative effector, 1930, 93: 681.

Lymph hearts, action of strychnine on, 1936, 116: 127.

Lymph node, mammalian, culture of, 1935, 113: 81.

Lymph nodes, mouse, single normal, metabolism of, 1935, 111: 477.

Lymph normal, from foot of dog, 1933, 103: 34.

Lymph passage of substances from blood to, 1932, 101: 232.

Lymph production, 1936, 116: 37.

Lymph protein content in foot of dog, 1933, 103: 34.

Lymph sugar, 1935, 113: 548.

Lymphatic absorption and serous cavities, 1937, 119: 259.

from serous cavities, 1937, 119: 776. in excised tissues, 1937, 119: 260.

Lymphatic obstruction, edema fluid after, 1934, 109: 572.

Lymphatics in web of frog, 1932, 101: 30.

Lymphedema and elephantiasis, experimental, 1934, 108: 509.

Lyotropic series on intestinal absorption, 1934, 110: 490.

Lysin present in normal urine, 1934, 107: 603.

Lysine, metabolism of, 1937, 119: 296, 301.

Lysine deficient diet, effect of, on estrous cycle, 1937, 118: 786.

Magnesium, agents which antagonize the curare-like action of, 1937, 119: 281.

Magnesium content of irradiated rats, 1930, 92: 651.

Magnesium deficiency and development of teeth, 1935, 112: 256. in animals, 1932, 101: 454.

Magnesium deprivation and galvanic stimuli in rats, 1933, 105: 635.

Male hormone, relation of, to protein metabolism, 1936, 117: 642.

Maltase activity of blood serum, 1936, 114: 534.

Mammalian A nerve fibers, pH and action of, 1937, 118: 600.

Mammary development during pseudopregnancy, 1933, 103: 595.

Mammary gland, effect of testosterone on, 1936, 116: 29.

in vitro synthesis of non-fermentable reducing materials by, 1934. 109: 108. lactating, retrogression of, 1937, 118: 528.

Mammary gland development, galactin and theelin in, 1935, 112: 673. hysterectomy and, 1937, 120: 300.

Manganese as factor in reproduction, 1932, 101: 591.

Manometer, differential, and measurement of blood pressure curves, 1937, 119:

differential, applications of, 1937, 119: 325.

hypodermic, 1934, 109: 47.

Marmot, adrenalectomy in opossum and, 1936, 115: 618.

Mastication, neural mechanism of, 1934, 108: 168.

Maternal and fetal blood sugar changes, 1930, 95: 178.

Maternal behavior of hypophysectomized mice, 1937, 120: 167.

Materno-fetal carbohydrate metabolism, 1935, 113: 450.

Mating activity, rôle of cortex and sense organs in, 1937, 120: 544.

Mayas in Yucatan, basal metabolism of, 1932, 100: 274.

Mecholyl, effects of, on gastric secretion, 1937, 120: 705.

Medulla, intrinsic regulation of blood vessels of, 1934, 108: 241.

reflexes after lesions in pyramids of, 1934, 109: 178.

Medulla oblongata, localized faradic stimulation of, and effects on breathing, 1937, 119: 280.

Medulliadrenal secretion, reflex inhibitory action of vagus on, 1931, 98: 55.

Melanogenesis, 1933, 103: 535.

Melanophore hormone of hypophysis cerebri, 1935, 113: 534.

Membrane, nictitating, reflex responses of, 1935, 112: 422.

Membrane equilibrium in the dynamic ultrafiltration process, 1932, 101: 101.

Menstrual cycle, circulatory factors in, 1931, 96: 1.

daily blood counts in, 1936, 114: 452.

of monkey, ovarian hormones and, 1935, 113, 238.

of monkeys, 1933, 105: 473.

Menstrual toxin, 1933, 105: 68.

Menstruation, anterior lobe and, 1930, 95: 662.

experimental, ovarian hormone in, 1936, 117: 381.

following ovariectomy in monkey, 1931, 99: 271.

pregnancy and, metabolic studies during, 1931, 96: 191.

Mental activities, neuromuscular states during, 1930, 95: 694, 703.

neuromuscular states during, 1931, **96**: 115, 122. neuromuscular states during, 1931, **97**: 200.

Mental activity and height of knee-jerk, 1931, 97: 658.

Mercurochrome and thio-mercurochrome, asymmetric, physiological action of, 1936, 116: 105.

Mesenteric ganglion, inferior, influence of, on excitability of dog's colon, 1937, 119:

Metabolic activity of pancreas, 1933, 106: 509.

Metabolic aspects of thyroid-adrenal interrelationship, 1936, 115: 415.

Metabolic effect of intravenous tyrosine and thyroxine, 1933, 103: 279.

Metabolic effects of clamping visceral arteries, 1935, 111: 369.

Metabolic fate of galactose in dogs and rabbits, 1935, 111: 530.

Metabolic heat production, 1935, 113: 14.

Metabolic organ tissue changes and reproduction, 1937, 119: 445.

Metabolic rate, basal, effect of physical training on, 1931, 98: 595.

fetal influence on, 1931, 97: 556.

in exercise, 1934, 108: 203.

of rabbits fed on abnormal human thyroid preparations, effect of Lugol's solution on, 1930, 93: 683.

Metabolic rates and respiratory quotients in rats following ingestion of dextrin, 1930, 93: 697.

of cat-fish treated with thyreotropic hormone, 1934, 109: 10.

Metabolic studies during pregnancy and menstruation, 1931, 96: 191. in osteoporosis, 1936, 114: 383.

Metabolic waste heat, use of, in muscular exercise, 1929, 91: 238.

Metabolism, activity, of a single muscle in situ, 1931, 97: 545.

activity, of muscle in situ, 1932, 102: 481.

after thyroxin in sympathectomized animals, 1931, 97: 315.

and irritability of heart muscle, 1933, 103: 620.

and ketosis, effects of fat diets on, 1933, 105: 46.

and urinary nitrogen of Oriental women, 1935, 113: 291.

avian carbohydrate, 1936, 115: 389.

basal, amniotin and, after thyroidectomy, 1937, 120: 671.

basal, and iodine excretion in pregnancy, 1935, 113: 221.

basal, and nutritional status, 1931, 98: 698.

basal, and pulse rate in relation to body temperature and menstrual cycle, 1937, 119: 393.

basal, during conditioned salivation, 1931, 98: 25.

basal, effect of amniotin on, 1933, 105: 241.

basal, effect of anterior pituitary extract on, 1933, 105: 15.

basal, effect of dinitrophenol on, 1933, 106: 432.

basal, effect of estrin injections on, 1930, 95: 630.

basal, effect of estrin injections on, 1936, 35. 636.

basal, effect of pituitary preparations on, 1930, 95: 396.

basal, effects of posterior pituitary extracts on, 1931, 96: 640.

basal, estimations, 1936, 116: 485.

basal, exercise and, in dogs, 1930, 95: 202.

basal, in old age, 1934, 110: 329.

basal, in Orientals, 1930, 91: 661.

basal, in pre-adult years, standards for, 1935, 111: 630.

basal, in rats, after sympathectomy, 1933, 103: 637.

basal, in senility, 1933, 105: 52.

basal, influence of sodium fluoride on, 1935, 113: 441.

basal, influence of thyroglobulin on, 1935, 113: 7.

basal, NaF administration and, 1936, 117: 155.

basal, of Mayas in Yucatan, 1931, 96: 518.

basal, of Mayas in Yucatan, 1932, 100: 274.

basal, of normal dogs, parathormone and, 1934, 110: 1.

basal, of Oklahoma women, 1931, 98: 692.

basal, of pigeon, 1932, 101: 260.

basal, of pigeons, influence of season on, 1934, 107: 333.

basal, of rat, effect of exposure to cold on, 1936, 116: 140.

basal rate and sex behavior, effects of various substances on, 1931, 97: 538.

basal, standard for, with nomogram, 1936, 116: 468.

basal, uncontrolled factors in, 1934, 110: 320.

basal, vaginal smears, body temperature and, 1937, 119: 635.

brooding, temperature factor in, 1933, 105: 428.

calcium and phosphorus, 1931, 97: 142.

calcium, in rachitic dogs, effect of theelin and gonad stimulating principle of anterior pituitary on, 1937, 119: 356.

calcium, of rat, effect of growth and thyreotropic hormones of anterior pituitary on, 1934, 109: 85. carbohydrate, 1930, 91: 664, 679.

carbohydrate, 1930, 92: 543, 555.

trin,

937.

carbohydrate, adrenal and, 1937, 118: 15. carbohydrate, after denervation of liver, 1931, 98: 605. carbohydrate, after hepatectomy, 1934, 107: 406. carbohydrate, and creatinuria, 1936, 115: 364. carbohydrate, and specific dynamic action in partially hypophysectomized dogs, 1933, 105: 29. carbohydrate, cortico-adrenal extract and, 1932, 100: 693. carbohydrate, effect of the pituitary on, 1934, 109: 66 carbohydrate, effects of endocrine glands on, 1934, 109: 5 carbohydrate, effects of epinephrin on, 1930, 94: 69. carbohydrate, effects of exhaustion and cold on, 1932, 100: 685. carbohydrate, hyperthyroidism and, 1936, 117: 6. carbohydrate, hypophysis and, 1935, 112: 493. carbohydrate, hypophysis and, 1937, 118: 15. carbohydrate, hypothalamic lesions and, 1936, 114: 562. carbohydrate, in adrenalectomized cattle, 1936, 116: 274. carbohydrate in dehepatized animal, 1931, 97: 543 carbohydrate, in hypophysectomized dog, 1935, 113: 26. carbohydrate, of diabetic heart, 1936, 114: 273. carbohydrate, of mammalian heart, 1933, 103: 712 carbohydrate, of placenta and fetal liver, 1935, 112: 263. carbohydrate, studies in hypophysectomized rats, 1934, 109: 82. carbohydrate, ventricular fibrillation and, 1933, 105: 246. cardiae, during ventricular fibrillation, 1933, 105: 55. during growth of pigeon, 1932, 101: 251. effect of methylene blue, cystine and cysteine on, 1936, 117: 631. effect of tobacco smoking on, 1934, 109: 118. effects of alcohol on, 1932, 101: 57. effects of low environmental temperature on, 1931, 97: 565. effects of various substances on, 1931, 97: 553. energy, of hen, 1936, 116: 38. energy, of phosphorus-deficient cattle, 1933, 106: 676. energy, of pregnant rabbits, 1930, 93: 249, 655. energy, relation of cervical sympathetic to, 1932, 102: 249. fasting of birds, 1936, 115: 281. fat, hyperthermia and, 1930, 95: 417. fetal carbohydrate, 1935, 113: 450. gaseous, of frog kidney, 1935, 110: 539. gaseous, of liver, blood flow and, 1936, 117: 328. glandular, 1929, 91: 172. glandular, 1930, 93: 568. heart, 1930, 94: 630. human basal, degree of constancy in, 1935, 110: 521. human basal, effect of sleep on, 1934, 108: 377. hypophysis, stimulation of, by theelin, 1937, 120: 154. in adrenal insufficiency, 1934, 108: 535. in experimental hyperthyroidism, 1930, 92: 672. in pregnancy, 1930, 95: 592. in pregnancy, 1931, 96: 94, 101, 112. increased, after Roentgen radiation, 1932, 99: 454

increased, and ketone utilization, 1937, 120: 446. increased, of diabetes, 1934, 109: 88. influence of irradiated ergosterol on, 1932, 101: 86. lactic acid, of muscles in sugar solutions, 1934, 107: 667. linear vs. exponential method of predicting, 1935, 113: 11. lipid, after hypophysectomy, 1936, 116: 543. muscle, relation of thyroid and adrenal to, 1933, 105: 110. nerve, 1930, 93: 342. nerve, lactic acid in, 1933, 104: 291. nitrogen, effect of adrenalin on, 1931, 96: 28. nitrogen, suprarenal cortical hormone and, 1935, 113: 335. of adrenalectomized rats, 1937, 119: 589. of alcohol, effect of hexoses on, 1934, 109: 18. of bilaterally nephrectomized dogs, 1936, 116: 62. of birds, factors affecting, 1932, 101: 88. of brain and legs in anoxemia, 1931, 98: 373. of carbohydrate in aseptically incubated liver brei, 1930, 93: 677. of chloride and sugar, hypothalamus and, 1935, 112: 504. of denervated skeletal muscle, 1931, 98: 50. of excised frog heart, thyroxin and, 1934, 110: 187. of excised Limulus heart, thyroxin and, 1936, 114: 618. of excised tissue, adrenalectomy and, 1934, 110: 348. of exercise, adrenalin and, 1931, 97: 375. of fat, rôle of lung in, 1930, 93: 521. of fish as affected by tobacco extracts, 1930, 93: 697. of glucose administered to fasting dog, 1930, 93: 643. of glutathione, 1932, 102: 714. of ingested protein and carbohydrate in fasting dog, 1931, 97: 510. of levulose, 1932, 101: 90. of levulose, influence of pregnancy on, 1934, 109: 90. of normal individuals, energy of, 1936, 116: 468, 485. of partially hypophysectomized dogs, 1933, 106: 299. of protein and carbohydrate during prolonged fasting, changes in, 1936, 116: 26. of rats, effect of fluorine on, 1934, 109: 645. of single normal mouse lymph nodes, 1935, 111: 477. of the Chinese, 1932, 101: 79. ovarian hormone and, 1931, 97: 82. phospholipid, rôle of vitamin A in, 1932, 101: 77. pituitary, effects of oestrus and spaying on, 1936, 115: 130. posterior pituitary hormone in, 1931 97: 215. posterior pituitary hormone in, 1931, 99: 253. posterior pituitary hormone in, 1932, 102: 402. protein and energy, of fasting rats, 1934, 108: 285. protein, in pancreatic diabetes, 1933, 105: 300. protein, relation of male hormone to, 1936, 117: 642. racial, 1933, 105: 383. relation of vitamin B requirement to, 1933, 105: 678. relation of vitamin B to, 1932, 99: 689. relative, of liver and other tissues, 1931, 97: 117. respiratory, adrenal cortical hormone and, 1932, 99: 710.

respiratory, of active and inactive rats, 1933, **106**: 670. respiratory, of atrophic muscle, 1934, **109**: 200.

respiratory, of diabetes, liver and, 1933, 105: 306.

respiratory, of heart, inhibition of, after dinitrophenol, 1935, 111: 196.

respiratory, of infrahuman primates, 1934, 109: 16.

respiratory, of infrahuman primates, 1934, 110: 477.

respiratory, of pancreatic diabetes, 1932, 102: 460.

respiratory, of pancreatic diabetes, 1933, 104: 298.

respiratory, of stimulated frog muscle, 1936, 115: 371.

respiratory, of stimulated frog's muscle, 1936, 116: 58.

salt and water, after adrenalectomy, 1935, 111: 305.

secretory, of salivary glands, 1935, 114: 46.

standard, in white mouse, 1937, 118: 77.

tissue, at normal and febrile temperatures, 1934, 109: 502.

tissue, effect of certain metabolic products on, 1934, 109: 72.

tissue, effect of febrile temperature on, 1933, 105: 70.

tissue, in oestrual and spayed rats, 1936, 115: 121.

tissue, thyroxin and, 1934, 109: 94.

tissue, thyroxin and, 1935, 111: 107.

variability of energy of, in normal individuals, 1937, 119: 271.

variability of energy of, in normal persons, 1936, 116: 10.

variation in basal rate of, 1932, 101: 30.

water, electrolyte concentration and tissue reaction in, 1934, 109: 28.

water, factors in, 1935, 113: 193.

water, in hypophysectomized frogs, 1935, 112: 397.

Metabolism response, differential, of sexes, 1930, 95: 111.

Metabolism studies on potassium, sodium and chloride, 1937, 118: 620. on the white rat, 1930, 94: 662.

Methemoglobin, formation of, from rabbit's blood, 1930, 93: 674.

Methemoglobin vs. sulphemoglobin after ingestion of acetanilid, 1935, 113: 105.

Methionine and cysteic acid, absorption of cystine,—from intestinal loops, 1936, 115: 188.

Method for measurement of e.m.f. of glass electrode, 1934, 109: 51.

Methyl guanidine and autonomic nervous system, 1932, 99: 598.

Methylene blue, ammonium chloride, and strychnine, and respiration, 1930, 94:
427

and anoxemia, 1935, 110: 580.

26.

and asphyxial poisoning, 1935, 114: 160.

as an antidote to CO poisoning, 1933, 104: 139.

effect of, on HCN and CO poisoning, 1932, 102: 145.

Methylene blue elimination in man, 1933, 103: 265.

Micro-manipulator, special, 1934, 109: 36.

Microscope-centrifuge, 1932, 101: 51.

Micturition, control of, by central nervous system, 1936, 116: 95.

extra pyramidal control of, 1937, 118: 483.

periodic, after section of sacral nerves, 1936, 115: 685.

released from cerebral control, 1936, 115: 694.

Micturition volume in cat, 1937, 119: 423.

Milk and meat extracts, synergistic and antagonistic effects of, 1934, 109: 66.

human, cow and goat, anemia due to feeding, 1935, 113: 642.

human, vitamin G in, 1932, 100: 420.

mineralized, nutritive value of, 1932, 102: 319.

nutritive deficiency of, 1933, 103: 468.

pasteurized, utilization of calcium in, 1933, 104: 1.

Mineral content of pigeons fed polished rice, 1931, 99: 221.

Minerals and sucrose, effects of adding, to diet, 1934, 108: 215.

Mitogenetic radiation from living organisms, measurement of, 1934, 109: 41.

Mitral stenosis, experimental, circulation in, 1931, 97: 405.

Mobilities, electric, of proteins in alcohol solutions, 1931, 97: 501.

Mobility, electric, of oil droplets in soap sols and gels, 1931, 97: 500.

Monkey, surface area of, 1933, 106: 91.

uterine bleeding of, 1933, 106: 416. Monophasic action currents, 1934, 109: 59.

Mortality in bird embryos, 1930, 94: 535.

Motility and body temperature during sleep, 1933, 105: 574.

Motion, effect of, on electrical conductivity of blood, 1937, 118: 708.

Motoneurone, response of, to antidromic impulse, 1935, 112: 595.

Motoneurones, facilitation of, 1935, 113: 505.

summation of impulses transmitted to, 1935, 113: 524.

Motor activity of large intestine, 1932, 101: 511.

Motor conditioning in dogs, 1936, 116: 34.

Motor coördination and tonus in deafferented limbs, 1936, 115: 461.

Motor cortex of monkeys, action of anesthetic drugs on, 1931, 97: 537.

Motor disturbances following lesions of cortex, 1930, 95: 584.

Motor effects of median longitudinal incision of the decussations of the medial lemniscus and corticospinal tracts in the cat, 1937, 119: 384.

Motor neurones, silent period produced by synchronization of discharge of, 1934, 109: 123.

Motor recovery from precentral lesions, 1936, 115: 138.

Motor reflex, conditioned, in rabbit, sheep, goat and pig, 1931, 97: 539.

Motor reflexes, conditioned, in cats, 1934, 109: 31.

Motor response to stimulation of a single cortical focus, simultaneous facilitation and extinction of, 1936, 116: 39.

Motor unit, responses limited to, 1931, 97: 551.

Motor units, electrical activity of, 1935, 114: 90.

Movements, vertical, respiratory reactions upon, 1936, 117: 349.

Mucosa, exteriorized, myenteric reflex in dog with, 1934, 110: 129.respiratory, reaction of, to skin temperature, 1936, 115: 181.

Mucous membranes, absorption of drugs through, 1933, 105: 67.

Mucus, oral and pharyngeal, secretion of, 1936, 115: 497.

relation of, to acidity in gastric juice, 1934, 110: 28.

Muscle, action potentials of single fibers of, 1932, 101: 37.

anaerobic oxygen debt of, 1930, 93: 124.

and blood, epinephrin and sugar exchange of, 1934, 108: 107.

and liver glycogen, effect of epinephrine on, 1931, 97: 467.

and nerve, lack of isochronism between, 1931, 97: 557.

and nerve, latent addition in, 1936, 116: 11.

and nerve reactions after decerebration, 1932, 102: 138.

and nerve reactions after decerebration and decapitation, 1932, 101: 70.

at low temperature, effect of pressure on, 1930, 93: 90, 97.

atrophic, respiratory metabolism of, 1934, 109: 200.

birefringence of, 1937, 119: 275.

blood and, oxy- and carboxyhemoglobin, 1933, 103: 75.

burning of CO by, 1932, 102: 393.

capacity of, for work after adrenalectomy, 1935, 112: 65.

cardiac, bound water in, in relation to ventricular fibrillation, 1934, 110: 485.

cardiac, metabolism and irritability of, 1933, 103: 620. eardiac, work done and energy liberated by, 1933, 103: 400. contracting mammalian, chemical changes in, 1933, 105: 151, 687 denervated, acetylcholine contracture of, 1937, 120: 757. denervated mammalian skeletal, 1937, 120: 781. denervated skeletal, changes in, 1937, 118; 580. denervated skeletal, factors in atrophy of, 1934, 110: 8. denervated skeletal, metabolism of, 1931, 98: 50. diet and distribution of glycogen in, 1934, 108: 708. during contraction, electrical activity of, 1935, 114: 90. dying, electrical resistance changes in, 1932, 99: 338. effect of moving liquid on activity of, 1933, 104: 480. effect of moving liquid on electrical stimulation of, 1933, 105: 99. effect of premature contractions on heart, 1936, 115: 569. effects of extracts of posterior hypophysis on water interchange in, 1930, 93: electrical resistance of, during contraction, 1934, 109: 14. excised skeletal, of depancreatized-hypophysectomized dog, respiratory metabolism and lactic acid cycle in, 1936, 116: 142. fatigue and recovery in, 1931, 97: 521. frog, caffeine and heat production of, 1936, 116: 137. frog, effect of potassium on irritability of, 1933, 105: 47. frog, plurisegmental innervation of, 1930, 94: 604. frog, potassium equilibrium in, 1933, 105: 33. frog, viosterol and oxygen consumption of, 1935, 113: 464. frog's gastrocnemius, fatigue, contracture and rigor mortis in, 1936, 116: 146, 147. frog's hydrolysis of phosphocreatine and lactic acid production in, 1929, 91: 362. function of nerve to, 1935, 110: 636. gastroenemius, action potentials in, 1935, 111: 641. gastroenemius, of frog, action potentials from, 1937, 119: 365. glycogen content of, effect of sympathetics on, 1930, 93: 657. glycogen-poor, source of energy in, 1930, 95: 130. graded responses and conduction in, without apparent contraction, 1936, 116: grading mechanism of, 1930, 93: 9. heart and skeletal, during and after activity, volume changes of, 1935, 113: 42. heart, subthreshold electrical currents and, 1932, 100: 671. hexosemonophosphate changes in, 1935, 112: 5. in CO, recovery of, 1936, 114: 625. in situ, activity metabolism of, 1932, 102: 481. in situ, isometric contractions of, 1932, 102: 476. injury potential of, 1934, 109: 33. intercostal, nervous control of, 1935, 110: 700. invertebrate smooth (retractor of Thyone bryareus), 1936, 116: 22. iodoacetic acid and oxygen consumption of, 1933, 103: 94. isolated, effect of stretch on survival of, 1933, 106: 156. lactate formation in, 1932, 102: 448. lactic acid concentration and oxygen consumption in, 1935, 113: 124.

lactic acid cycle of, in diabetic dog, 1932, **101**: 92. mammalian, CO₂ combining power of, 1931, **97**: 534. mammalian, functions of phosphocreatine in, 1934, **109**: 92.

ial 34,

on

mammalian, hydrogen ion concentration of, 1934, 107: 539. mammalian, phosphocreatine as buffer in, 1930, 94: 626. mammalian, response of, to electrical stimulation of nerve, 1935, 113: 10. mammalian, skeletal, relation of potassium to contractions of, 1934, 109: 3. mammalian skeletal, sympathetic function in, 1930, 93: 41. minced, relation of iodo-acetic acid to lactate accumulation, 1932, 101: 94. of depancreatized dogs, respiratory quotient of, 1934, 110: 352. of forelimb, reflex reversal in, 1933, 105: 73. oxygen consumption of, in chemical contracture, 1930, 93: 648. oxygen consumption of, related to diathermy, 1932, 99: 608. phosphocreatine in chemical changes in, 1934, 108: 521. protein as source of energy of, 1932, 102: 325. reciprocal reaction of, 1930, 95: 174. recovery heat-production of, in mammals, 1932, 101: 18. red and white, chemical consideration of, 1934, 109: 98. regulation of sodium content of, 1932, 101: 77. response of, in nutritional myopathy, 1934, 108: 229. resting, oxygen consumption of, 1933, 103: 89. resting, respiratory quotient of, 1930, 95: 429. resting skeletal, potassium diffusion from, 1935, 112: 139. skeletal, absence of "all-or-none" in heat production of, after direct stimulation, 1930, 93: 648. skeletal, capacity of, to maintain work output, 1934, 110: 357. skeletal, contracture of, and serum calcium in cats, 1934, 109: 23. skeletal, correlation between time values and tension in, 1930, 93: 635. skeletal, effect of bulbocapnine on fatigue of, 1935, 113: 86. skeletal, effect of fasting on activity of, 1932, 100: 241. skeletal, fatigue in, 1932, 101: 339. skeletal, fatigue in, in relation to frequency of stimulation, 1930, 93: 644. skeletal, glycogen of, nervous system and, 1935, 111: 243. skeletal, H/T ratio in twitch of, 1935, 110: 552. skeletal, latencies of response in, 1936, 115: 441. skeletal, length-tension relationships in contractures of, 1936, 116: 115. skeletal, of rat, changes in, after denervation, 1933, 104: 379. skeletal, potassium and contractions of, 1935, 112: 147. skeletal, phosphorus compounds in perfused, 1934, 110: 102, 105. skeletal, relation of isometric tension to length in, 1937, 119: 264. skeletal, SCN contracture in, 1931, 96: 203. skeletal, total acid soluble phosphorus in, 1937, 119: 267. smooth, a hormone produced by sympathetic action on, 1931, 96: 392. smooth, cocaine sensitization of, to adrenin, 1931, 98: 186. smooth, effect of cyanide on contracture of, 1932, 101: 91. smooth, effects of Ca and K ions on, 1934, 108: 46. smooth, electric potentials in, 1933, 103: 659. smooth, electric responses of, 1935, 114: 147. smooth, heat production of, 1930, 92: 117. smooth, initial heat of, 1932, 101: 13. smooth, innervation of, 1930, 92: 453. smooth, nature of response of, to adrenin, 1933, 103: 681. smooth, pressure action on tension response of, 1935, 113: 37. smooth, radiation and excitability of, 1936, 115: 194. smooth, sensitivity of, to adrenine after denervation, 1935, 111: 611.

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smooth, sensitivity of, to epinephrine, 1937, 120: 401.

smooth, significance of electric responses of, 1936, 116: 387.

sodium and chloride in, 1934, 110: 261.

stimulated, electrolytes in, 1936, 115: 345.

stimulated frog, respiratory metabolism of, 1936, 115: 371.

stimulated mammalian, chemical changes in, 1933, 105: 86.

striated, action of hydrostatic pressure on, 1930, 93: 639.

striated, contraction frequency and energy expenditure in, 1930, 95: 121.

striated, contracture phenomenon in, 1932, 101: 15.

striated, excitation and permeability in, 1932, 100: 173.

striated, interval between and chemical changes in contractions, 1930, 93: 696.

striated, power output of, 1933, 105: 91.

striated, sensitivity of, to changes in pH, 1933, 105: 353.

tension-length relation of, 1932, 101: 97.

tibialis antieus, modification of reflex contractions of, by administration of sodium sulphide and cyanide, 1936, 116: 89.

unstimulated caffeinized, oxygen consumption and respiratory quotient of, 1937, 119: 396.

uterine, activity of, initial tension and, 1935, 112: 320.

uterine, response of, to human seminal fluid, 1935, 112: 577.

validity of Hofmeister series in heart and striated, 1932, 101: 38.

ventricular, effects of cold and of veratrin on action potential of, 1930, 92:

ventricular, response of, to repetitive stimuli, 1930, 92: 160.

visco-elastic changes in, under pressure, 1932, 101: 31.

Muscle activity, rôle of hexose diphosphate in, 1930, 92: 107.

Muscle after-contraction, 1937, 119: 549.

Muscle atrophy, simple disuse, 1936, 117: 626.

Muscle bath, smooth-, new, 1937, 119: 260.

Muscle cells, skeletal, absorption of water by, 1933, 106: 115.

Muscle changes after denervation, 1933, 105: 51.

Muscle contraction after tetanus, 1937, 119: 463.

and pH variation, 1937, 119: 371.

prolonged, chemical changes in, 1937, 118: 232.

skeletal, effect of sympathetic and dorsal root stimulation on, 1934, 109: 113.

skeletal, sounds due to, 1936, 116: 41.

voluntary, loss of potassium in, 1937, 120: 675.

Muscle contracture, smooth, heavy metal catalysis in, 1933, 106: 225.

Muscle counts of motor units, 1931, 96: 296.

Muscle electrolytes and water during atrophy, 1937, 120: 719.

Muscle excised, survival of excitability in, 1937, 119: 282.

Muscle excitation, smooth, 1936, 116: 414.

Muscle exercise, protein as fuel in, 1932, 101: 85.

Muscle extracts, toxicity of, 1931, 97: 662.

Muscle fatigue, adrenalectomy and, 1930, 93: 691.

and permeability, 1932, 100: 447.

influence of muscle sense fibres on, 1934, 109: 66.

Muscle fiber, skeletal, local graded contractions in, 1935, 113: 126.

Muscle fibres, single, 1930, 93: 1.

single, 1930, 95: 412.

single, action potentials from, 1932, 101: 678.

single, conducted contractures in, 1933, 103: 237.

single, studies of, 1931, 96: 16.

striated, factors determining type of response in, 1937, 118: 492. single, summation of two subliminal stimuli in, 1933, 105: 42.

Muscle force at different velocities of shortening, 1935, 113: 41.

Muscle glycogen, action of sympathetic nerves on, 1930, 93: 213.

changes in, with physical training, 1932, 100: 506.

changes with physical training, 1931, 97: 552.

effect of epinephrin on, 1930, 94: 615.

effect of epinephrine on, 1932, 101: 462.

effect of regional sympathectomy on, 1931, 96: 308.

epinephrin and, 1930, 94: 557.

influence of sympathetics on, 1931, 97: 57.

liver and, after hypophysectomy, 1936, 114: 468.

Muscle glycolysis, reversible inhibition of, 1937, 120: 522.

Muscle hemoglobin, spectrophotometric observations on, 1930, 93: 683.
spectrophotometric study of, 1930, 94: 521.

Muscle lactic acid, blood and, in steady state, 1937, 118: 697.

Muscle metabolism after radiation, 1932, 99: 454.

effect of CO on, 1932, 101: 34.

relation of adrenal and thyroid to, 1933, 105: 110.

Muscle oxydase, action of some antiseptics on, 1935, 113: 91.

activity of, and method of slaughter, 1935, 113: 92.

Muscle relaxation time in man, 1934, 108: 573.

Muscle resistance to shortening and tension, 1937, 119: 387.

Muscle respiration and glycolysis, effects of iodoacetate and iodoacetamide on, 1937, 119: 408.

stimulation of, by CO, 1932, 102: 379.

Muscle response, effect of axon size on, 1933, 103: 651.

Muscle sounds in auscultation of heart, 1937, 118: 359.

Muscle sugar, depletion of, by adrenalin, 1930, 95: 403.

Muscle swelling and osmotic exchanges within the frog, 1931, 96: 598.

Muscle system, nerve-, crustacean, electrical phenomena of, 1935, 114: 224.

Muscle tension and speed, 1931, 97: 1.

Muscle tone, sympathetic control of, 1931, 98: 547.

Muscle tonus, skeletal, effect of atropin on, 1930, 93: 379.

variations in, 1935, 113: 71.

Muscle work after destruction of adrenal medulla, 1936, 114: 653, 657.

Muscles, acid-base effects upon respiration and, 1931, 98: 60.

denervated facial and ocular, fright and drug contractions in, 1937, 119: 270.

epinephrine and utilization of sugar by, 1937, 118: 328.

eye, adaptation to transposition of, 1936, 116: 245.

facial, electric responses of, 1937, 120: 384.

frozen, sources of error in weighing, 1930, 92: 414.

hot wire anemometer for blood flow in, 1930, 95: 554.

human, relation between tension and speed of shortening in, 1931, 97: 520.

human, single motor unit responses in, during contraction, 1935, 113: 88.

in sugar solutions, lactic acid metabolism of, 1934, 107: 667.

intra-aural, functions of, 1937, 120: 771.

isolated, oxygen consumption of, 1931, 96: 78

loss of potassium from, on stimulation, 1937, 119: 307.

non-irritable by sugar, oxygen consumption of, 1931, 97: 635.

of dog, striated and cardiac, phosphorus compounds in, 1934, 109: 84.

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N

peripheral, respiration and excitability of, 1930, 95: 519. pilomotor, electrograms of, 1936, 116: 131.

potassium shift to, 1935, 112; 41.

respiratory, fusillade patterns of, 1936, 116: 228.

resting and active, capillary counts in, 1932, 100: 407.

Muscles, skeletal, effect of anterior cordotomy on spasticity of, 1937, 119: 282. smooth, electrogram of, 1936, 116: 35.

specific, variation of, during imagination, 1931, 96: 115.

Muscular activity under exteriorized colonic mucosa, 1934, 110: 123.

Muscular afferent impulses in control of breathing, 1932, 100: 68.

Muscular contraction, adenosine triphosphate in recovery from, 1937, 119: 395.

aerobic, source of energy in, 1935, 112: 294.

after tetanus, 1937, 119: 338.

carbohydrate and phosphorus changes in prolonged, 1936, 116: 135.

carbohydrate changes and, 1935, 112: 565.

carbohydrate changes during recovery from, 1935, 113: 114.

changes in power during, 1933, 104: 276.

in reciprocal innervation, relation of time phases of, 1934, 109: 81.

isometric, total tension in, and initial tension and length of muscle, 1936, 116: 4.

oxygen debt and lactic acid in, 1933, 106: 689.

resynthesis of phosphocreatine after, 1935, 112: 116.

resynthesis of phosphocreatine after, 1935, 113: 113.

under pressure, changes in efficiency of, 1934, 109: 18.

Muscular contractions, energy expenditure in, 1930, 93: 638.

Muscular efficiency as affected by food, 1937, 119: 323. Muscular exercise, diiodothyronine and thyroxine in, 1934, 110: 410.

effect of, on disappearance of ethyl alcohol in man, 1933, 105: 17.

lactic acid removal after, 1934, 107: 681.

strenuous, and renal excretion, 1937, 119: 642.

use of ethyl alcohol as fuel in, 1934, 110: 416.

use of metabolic waste heat in, 1929, 91: 238.

Muscular fatigue, blood changes produced by partial inanition and, 1933, 104: 669. ion effects on, 1932, 100: 452.

Muscular inactivity, erythrocyte counts during, 1934, 108: 118.

Muscular, intra-, pressure and venous return of blood, 1936, 114: 261.

Muscular relaxation, rectal temperature in sleep and, 1933, 104: 340.

Muscular shortening, speed of, force decrement and, 1934, 107: 568.

Muscular tonus and air stimulation to skin, 1936, 124: 269. electrical measurements of, 1934, 107: 230.

Muscular training, 1930, 92: 253; 1931, 96: 265.

Muscular work, effect of, on gastric acidity, 1932, 102: 258.

sources of energy in, 1934, 108: 341.

weight changes during, after food ingestion, 1935, 112: 307.

Myasthenia gravis, effect of glycocoll and ephedrine in, 1934, 109: 75.

Myelin degeneration in nerves and low vitamin B content of diet, 1932, 102: 598.

Myenteric plexus, structure and function of, 1931, 99: 179.

Myenteric reflex in dog with exteriorized mucosa, 1934, 110: 129.

Myocardial contraction, ischemic, 1935, 113: 677.

Myocardial lesions, electrocardiograms of dogs with, 1933, 106: 64.

Myocardium, Thebesian vessels in nourishment of, 1933, 106: 183.

Myogram, Piezo-electric, and electrogram of mammalian muscle, 1934, 109: 103.

Myxedema, artificial protein which relieves, 1935, 113: 114.

137

N

NaCL, effect of lecithin and, on blood sugar, 1933, 104: 344.

NaF administration and basal metabolism, 1936, 117: 155.

Neocerebellar cortex, extirpation of, 1937, 118: 720.

Nephelometer, slip cover, adaptation, for determination of fluorescent substances, 1936, 116: 27.

Nephrectomized rat, adrenalectomized-, survival of, 1936, 117: 200.

Nephrectomy or adrenalectomy, survival of marmots after, 1937, 119: 276. serum K and Na after adrenalectomy and, 1937, 120: 83.

Nerve, action-potential wave in, 1931, 97: 154.

activity of motor units during contraction, 1935, 114: 90.

and muscle, action of iodoacetate and glutathione on, 1934, 109: 22.

aortic, discharge of impulses in, 1931, 97: 508.

asphyxiated, anoxic recovery of, 1933, 105: 22. auditory, action potentials of, 1935, 113: 476.

axon segmentation in, 1934, 110: 287.

blood constituents and oxygen consumption in, 1935, 111: 697.

cardiac vagus, chronotropic function of, 1937, 120: 571.

cold block in, 1934, 107: 76.

cold block in, 1934, 108: 129.

crustacean, all-or-none law in, 1934, 107: 447.

crustacean, fibre diameter of, 1932, 100: 481.

delayed action potentials in, 1930, 93: 337.

depressed mammalian, reflex responses evoked from, 1937, 119: 327.

depressor, carotid sinus and, in hypertension, 1935, 110: 513.

depressor, of rabbit, fiber constitution of, 1934, 109: 274.

development of electrical excitation in, 1935, 113: 12.

dorsal root factors in vasodilatation and contracture, 1930, 92: 679.

duplication of sympathetic supply, 1936, 114: 443.

effect of carbon dioxide on, 1930, 93: 318.

effect of temperature on chronaxie of, 1930, 95: 139.

electrical resistance in, during block by cold, 1934, 109: 57.

electrical resistance of, temperature and, 1935, 114: 85.

electrolytes in, 1934, 110: 74.

ending of axon action potential and recovery process in, 1930, 93: 650.

excitation by shocks, 1936, 114: 309.

fibers, somatic, of slow conduction, 1930, 92: 43.

frog, anaerobic oxygen debt of, 1930, 92: 349.

frog, calcium content of, 1934, 109: 457.

frog, conductivity of, at low temperatures, 1933, 105: 10.

frog, freezing block in, 1934, 109: 14.

frog peripheral, glutathione content of, 1937, 119: 380.

frog, progressive degeneration of, 1933, 106: 398.

influence of electrolytes on respiration in, 1935, 111: 681.

irritability of, effect of activity on, 1930, 92: 656.

irritability of, subthreshold currents and, 1931, 99: 129.

isolated, effect of activity on survival of, 1933, 104: 590.

isolated frog, development of super-normal period on relatively refractory period of, 1934, 109: 42.

Lapicque's conversion factor in, 1936, 114: 620.

mammalian, irritability of, after excitation, 1936, 116: 67.

```
bstances,
```

ractory

mammalian vagus, 1933, 106: 623. mechanical stimulation of, 1936, 114: 586. medial cardiac, of Limulus, potential of, 1931, 97: 531. medullated, after-potential and oxidation in, 1933, 104: 320. medullated, arsenite action on, 1935, 111: 711. medullated, carotene and other pigments in, 1936, 117: 280. medullated, effect of arsenite on, 1934, 108: 14. medullated, effect of arsenite on, 1934, 109: 93. medullated, effect of CO on after-potential of, 1931, 97: 558. medullated, lactic acid in, 1933, 106: 339. medullated, thermal inactivation of, 1936, 115: 564. motoneurones, excitability of soma of, tested with electrical and synaptic stimuli, 1936, 116: 97. motor, changes in rheobase and chronaxie on sectioning, 1933, 105: 65. motor, intensity and duration thresholds in, 1933, 106: 721. oxygen consumption of, 1932, 101: 91. pathways involved in palatine and pharyngeal respiratory reflexes of cat, 1936, 116: 505. peripheral, degeneration of, 1931, 97: 412. peripheral, effects of strychnine on, 1936, 116: 120. peripheral, glutathione in, 1937, 119: 593. peripheral, thermal micellar shortening of, 1934, 109: 93. phrenic, crossed respiratory impulses to, 1936, 117: 495. polarization and action potential in, 1931, 97: 504. relation of spike-potential of, to after-potential, 1932, 101: 37. response of, to oxygen lack, 1930, 92: 498. responses of, to subthreshold shocks, 1931, 99: 108. rôle of calcium in excitation of, 1937, 119: 406. saphenous, nature and source of fibers in, 1933, 104: 23. sciatic, equation of voltage-capacity curve of, 1935, 112: 277. sciatic, of frog, stimulation of, by condenser charges, 1933, 105: 8. severed peripheral, non-centrifugal degeneration of, 1937, 119: 411. solvation and desolvation of, 1935, 111: 169. spike potential of, 1932, 101: 316. stimulated, oxygen consumption of, 1933, 104: 303. supernormality in recovery process of, 1934, 110: 225. sympathetic, impulse transmission through, 1937, 119: 221. sympathetic, of guinea-pig intestine, 1933, 104: 113. thermal shortening of, 1935, 111: 159. threshold excitability of, and CO2 tension, 1937, 119: 335. to muscle, function of, 1935, 110: 636. vagus, proprioceptive respiratory reflexes of, 1937, 119: 517. vertebrate, fiber size and action potentials of, 1934, 110: 165. Nerve action potential, relation between shape of stimulus and shape of, 1930, 93:

Nerve action potentials, hydrostatic pressure and, 1935, 113: 56. Nerve activity and movement in crustacean limbs, 1932, 99: 321.

and temperature, 1931, 97: 254.

relation of ending of axon action potential to, 1930, 94: 247.

Nerve after-potentials, 1933, 104: 216.

Nerve axis cylinder, optical studies of ultra-structure of, 1937, 119: 398.

Nerve axon excitation, 1936, 114: 309, 317, 328.

Nerve axon potentials, configuration of, 1933, 106: 565.

Nerve axon repetition, 1936, 114: 328.

Nerve axons, characteristics of, 1933, 106: 524.

effect of constant currents on, 1936, 114: 317.

Nerve birefringence, 1936, 116: 139.

Nerve catalase, 1933, 105: 87.

1933, 106: 404.

Nerve cells, birefringence of, 1937, 119: 287.

coeliac ganglion, of rabbit, functional behavior of, 1936, 117: 514.

Nerve centers, cardiac sympathetic, activity of, 1936, 117: 237.

Nerve conduction velocity and equilibration, 1932, 101: 39.

and equilibration, 1933, 104: 575.

Nerve control of the coronaries, 1935, 113: 361.

Nerve elements for pain in arteries, 1934, 110: 191.

Nerve endings in renal parenchyma, 1931, 96: 40.

Nerve fiber action potentials in spinal cord of cat, 1937, 119: 567.

Nerve fiber groups, optic, 1933, 106: 460.

Nerve fibers, action and excitability in, 1936, 117: 113.

action potential of, under anoxemia, CO₂ and lactic acid, 1931, 96: 613. alcohol block in, 1931, 97: 597.

mammalian A, effect of asphyxia on, 1937, 119: 111.

mammalian A, pH and action of, 1937, 118: 600.

non-myelinated, of dorsal roots, 1933, 106: 647.

non-myelinated or C, afferent functions of, 1935, 114: 179.

of eye, single, effect of dark adaptation on discharge of impulses, 1932, 101: 50.

of slowest conduction velocity, afferent function in, 1935, 113: 27.

of slowest conduction velocity, afferent function in, 1935, 114: 69.

polarization of, by extrinsic action potentials, 1932, 101: 9.

potassium-calcium balance and action of, 1937, 118: 613.

temporal summation in, 1936, 117: 355.

Nerve functions, cations and, 1933, 104: 216.

Nerve impulse, integration of, 1932, 101: 42.

nature of, 1930, 95: 650.

nature of, 1931, 97: 302.

Nerve impulse propagation, electrical theory of, 1937, 119: 399.

mechanical solution of equations of, 1937, 119: 399.

Nerve impulse velocity and fiber diameter, 1933, 104: 586.

Nerve impulses, frequency of, to nictitating membrane, 1933, 104: 81.

integration of effect of, 1932, 100: 459.

motor frequency of, in flexion reflex, 1931, 98: 484.

sympathetic, chemical mediation of, 1935, 112: 33.

transmission of, to uterus, 1937, 119: 527.

Nerve irritability in response to electric currents, and nature of relatively refractory phase, 1931, 97: 519.

Nerve mechanisms of heart, 1935, 114: 212.

Nerve metabolism, 1930, 93: 342.

1933, 104 291.

Nerve muscle apparatus, strength duration curves of, 1935, 113: 87.

Nerve muscle chronaxie and Phi Gamma curve, 1932, 100: 564.

Nerve muscle complex, excitability of single-fiber, 1932, 101: 47.

Nerve-muscle complex, excitable substances in, 1930, 93: 685.

Nerve muscle system, crustacean, electrical phenomena of, 1935, 114: 224.

Nerve plexus between aorta and pulmonary artery, 1933, 104: 253.

Nerve potentials, extrinsic effects of, 1932, 101: 559. in tortoise heart, 1935, 114: 119.

Nerve-potential effects of rapidly repeated stimuli, 1935, 111: 35.

Nerve proteins, 1935, 113: 116.

in unimolecular films, mechanical properties of, 1937, 119: 310.

unimolecular films of, 1935, 113: 44.

Nerve reactions, muscle and, after decerebration, 1932, 102: 138.

Nerve respiration, action of dyes, cyanide and CO on, 1931, 97: 511.

influence of ions on, 1932, 101: 19.

Nerve response, subnormal period of, 1935, 111: 452.

to two trains of rhythmic stimuli, 1937, 119: 315.

velocity of conduction in supernormal phase following, 1933, 105: 38.

Nerve roots, dorsal spinal, absence of spinal parasympathetic fibers in, 1933, 105: 51.

Nerve stimulation, autonomic, in unanesthetized cat, 1933, 105: 366.

effect of, in curarized preparations, 1932, 101: 12.

effect of, on curarized tongue, 1932, 100: 569.

in rabbit, responses to, 1934, 109: 409.

influence of, on intestinal absorption, 1933, 106: 283.

sympathetic, response of pial vessels to, 1936, 114: 278.

Nerve summation and inhibition, 1937, 120: 798.

Nerve supply, sympathetic, to the eye, 1932, 100: 519.

Nerve. See Action potentials.

See Neural.

See Potentials.

Nerves, afferent, in nictitating membrane reflexes, 1936, 115: 308.

autonomic, effects of methyl guanidine on, 1930, 93: 679.

autonomic, temporal and spatial summation in, 1933, 106: 365.

cardiac, fiber potentials in, 1931, 98: 220.

effects of potassium on cold blocking temperature of, 1933, 105: 31.

extrinsic renal, and experimental hypertension, 1935, 112: 166.

lateral-line, of fishes, electrical responses from, 1933, 105: 53.

locally cooled, conduction in, 1934, 109: 4.

lumbar colonic, influence of, on colon, 1930, 94: 501.

of heart, pain fibers in, 1936, 114: 688.

mammalian, in vivo, rate of conduction in, 1936, 116: 63.

mammalian plantar, specific reflex afferents in, 1937, 119: 326.

multifibered, electrical excitation of, 1933, 104: 519.

multifibered, electrical excitation of, 1933, 105: 85.

normal and regenerated, comparison of time relations of muscles supplied by, 1933, 103: 651.

sacral, periodic micturition after section of, 1936, 115: 685.

secretory, of prostate gland, 1937, 118: 64.

splanchnic, afferent impulses in, and arterial pulse, 1933, 105: 35.

splanchnic, section of, and gastric motility, 1937, 120: 356.

sympathetic, action of, on muscle glycogen, 1930, 93: 213.

sympathetic and vagus, potential analysis of, 1930, 93: 284.

sympathetic, control of wing-posture in birds by, 1931, 98: 547.

sympathetic, to heart from stellate ganglia, efferent impulses in, 1934, 109: 15.

vago-sympathetic, effect of, on cardiac tonus, 1930, 95: 56.

vagus, and sugar tolerance in dogs, 1934, 108: 210.

101: 50.

ractory

vagus and superior laryngeal, reflex respiratory effects from intermittent stimulation of, 1936, 116: 380.

vasodilator, inhibitory action of, 1936, 117: 457.

visceral, types of fibers in, 1930, 94: 170.

Nervous action, autonomic, principle of, 1933, 103: 392.

Nervous control of ileo-caecal sphincter in man, 1934, 108: 449.

of intercostal respiration, 1935, 110: 700.

of lactation, 1934, 107: 535.

of pancreatic secretion, 1937, 119: 724.

of pancreatic secretion in rabbit, 1931, 96: 349.

of respiration, 1931, 96: 59.

of respiration in kittens, 1930, 95: 681.

Nervous influences on parotid saliva in dog, 1931, 97: 668.

Nervous lesions in experimental black tongue, 1934, 109: 440.

Nervous mechanism, central, of reflex hyperglycemia, 1931, 99: 64. of mastication, 1934, 108: 168.

Nervous secretion of saliva, 1937, 119: 493.

Nervous system and glycogen metabolism of skeletal muscle, 1935, 111: 243.

autonomic, control of skeletal muscle tone and fatigue by, 1937, 119: 359. autonomic, methyl guanidine and, 1932, 99: 598.

central, action of saligenin and mono-brom saligenin on, 1935, 113: 91.

central, facilitation and extinction in, 1937, 119: 363.

central, hormone influence on, 1932, 100: 533.

central, hypertonic solutions and blood content of, 1931, 98: 363.

central, in control of pancreatic secretion, 1930, 94: 13, 17.

in experimental beriberi, 1935, 111: 660.

in vitamin B deficiency, 1934, 107: 459.

method for prolonged stimulation of, 1936, 116: 47.

sympathetic, effect of ergotamine on, 1935, 113: 592.

sympathetic, relation of, to mammalian skeletal muscle, 1930, 93: 41.

N-ethanol amides, physiological action of some, 1936, 116: 104.

Neural components of visual response, 1937, 118: 792.

Neural structures, salt content of, 1937, 119: 414.

Neurogenous activation of ciliated epithelium, 1935, 112: 468.

Neuro-muscular mechanism, human, 1933, 104: 95.

Neuromuscular mechanism of ductus epididymidis, 1933, 103: 582. response of, 1930, 94: 224.

Neuromuscular phenomena due to calcium and potassium variations in cerebrospinal fluid, 1935, 113: 100.

Neuromuscular states during mental activities, 1930, 91: 567.

during mental activity, 1930, 94: 22.

during mental activities, 1930, 95: 694, 703.

during mental activities, 1931, 96: 115, 122.

during mental activities, 1931, 97: 200.

Neuromuscular system, parathormone and, 1935, 111: 466.

Neurones, single motor, of soleus muscle, labyrinthine and neck reflexes in, 1933, 105: 54.

synaptic delay of, 1935, 111: 272.

Neurones, moto-, refractory period of, 1935, 111: 283.

summation of impulses transmitted to, 1935, 113: 524.

Neuronin, principal protein complex of neuroplasm, 1937, 119: 269.

Neurons, internuncial, inhibition in, 1935, 113: 68.

ittent

Neurosis, conditioning, treated by sedatives, 1936, 116: 40.
experimental, conditioned reflex method for producing, 1936, 116: 95.
experimental, conditioned reflex method in relation to, 1937, 119: 361.
experimental, in sheep, effect of cortin on, 1935, 113: 87.
Nicotine, effect of, on oxidations of diabetic brain, 1936, 116: 46.

rôle of liver in destruction of, 1932, 100: 167.

Nictitating membrane, action of certain drugs on, 1932, 100: 443. effect of yohimbine, etc., on, 1936, 116: 574.

electrical excitability of, 1934, 110: 399.

innervation and functions of, 1932, 100: 537.

nerve impulses to, 1933, 104: 81.

reflexes of, 1936, 115: 308.

refractory period of, 1937, 120: 514.

response of, to sympathetic stimulation, 1932, 102: 87.

sensitivity of, to adrenine, 1937, 120: 466.

tension and load in response of, 1934, 107: 717.

Nitrogen, pulmonary, body equilibration with, 1935, 112: 545.
urinary, metabolism and, of Oriental women, 1935, 113: 291.

Nitrogen balance, influence of infection on, 1934, 109: 13.

Nitrogen elimination and fat and water of body, 1935, 114: 137.

Nitrogen excretion of fasting birds, 1936, 115: 281.

Nitrogen metabolism, effect of adrenalin on, 1931, 96: 28. in pregnancy, 1930, 95: 592.

suprarenal cortical hormone and, 1935, 113: 335.

Nitrogen-sparing action of glucose, 1937, 120: 681. Nitrogenous bases of gastric juice, action of, 1936, 115: 604.

N-methyl amines, physiological action of some, 1936, 116: 104.

Nucleated cells in bone marrow of rat, 1936, 117: 662.

Nussbaum's experiment, 1934, 109: 63.

on renal secretion, 1937, 119: 175.

Nutrition and hormones, effect of, on liver amylase, 1935, 111: 130. in feeding iron and aluminum salts, 1935, 111: 118.

influence of, on response to amino acids, 1930, 93: 69, 258.

influence of plane of, on heat disposal by cattle, 1936, 116: 262.

of hogs under different food intakes, 1931, 97: 473.

of rat, fluorine in, 1933, 106: 350, 356.

of rat, zine in, 1934, 107: 146.

of white mouse, 1930, 92: 282.

physiology of zinc in, 1937, 119: 768.

Nutritional anemia and resistance to cold, 1937, 118: 549.

of pregnancy, 1933, 106: 449.

utilization of colloidal iron in, 1937, 118: 211.

Nutritional myopathy, response of muscle in, 1934, 108: 229.

Nutritive deficiency of milk, 1933, 103: 468.

Nutritive properties of "crop-milk" of pigeons, 1932, 102: 285.

Nutritive value of mineralized milk, 1932, 102: 319.

Nystagmus and changes of respiratory gases, 1935, 112: 662.

vestibular, corneal reflex and, 1933, 103: 704.

visceral reactions associated with, 1930, 93: 666.

Nystagmus, after-, cerebellum and habituation of, 1937, 120: 350.

Nystagmus, head-, of pigeons, influence of polyneuritis on, 1935, 113: 67.

Nystagmus reaction, galvanie, in monkey, 1937, 120: 703.

ebro-

1933,

0

O2 and CO2 tensions in human tissues, 1936, 115: 38.

O2 deficiency, mechanism by which CO2 offsets effect of, 1937, 119: 316.

Ocular, intra-, fluid, gas content of, 1933, 104: 553.

Ocular luminescence as source of entoptic vision, 1934, 108: 409.

Ocular rotation, center of, in horizontal plane, 1933, 104: 545.

Oestrin and corpus luteum, interrelationship of, 1932, 100: 650.

and progestin, effect of, on reaction of rabbit's uterus to pituitrin in vitro, 1936, 116: 73.

continued injection of, into young rats, 1933, 103: 631.

effect of, on anterior pituitary activity, 1936, 114: 508.

effect of, on hypophyseal-gonad complex, 1935, 110: 681.

effect of, on uterine fistula during pseudopregnancy, 1931, 98: 230.

inhibition of lactation with, 1933, 103: 356.

quantitative separation of progestin from, 1933, 106: 55.

relation to uterine proliferation, 1930, 92: 612.

source of, in pregnant mare, 1934, 109: 320.

urinary excretion of, 1931, 98: 578.

urinary, quantitative determination of, 1935, 112: 340.

Oestrin excretion by women, 1932, 100: 553.

Oestrin injections and development of ova, 1935, 111: 201.

Oestrin production, vaginal and uterine grafts as indicators of, 1936, 117: 672.

Oestrogenic agent, synthetic, effect of, on pituitary, 1936, 115: 665.

Oestrone and secretion of gonadotropic complex, 1937, 120: 232.

and sterility in rabbits, 1936, 115: 219.

Oestrous activity and absence of light, 1934, 109: 307.

Oestrous cycle, double adrenalectomy and, 1930, 95: 292.

of rat, effect of cortico-adrenal extract on, 1933, 105: 24.

in rat, effect of testis hormone on, 1931, 96: 289.

in rat, multiple ovaries and, 1930, 95: 40.

of hairless rat, 1934, 109: 32.

volume and irritability of uterus of rat in, 1932, 100: 331.

Oestrous motility of uterus, inhibition of, by crystalline progestin, 1935, 113: 2.

Oestrual and spayed rats, changes in tissue metabolism in, 1936, 115: 121.

Oestrual behavior in surviving decorticate cats, 1936, 116: 4.

of cats, effect of denervation of genitalia on, 1935, 113: 5.

Oestrual cycle of rat after suprarenalectomy, 1932, 100: 180.

of suprarenalectomized rats, effect of cortical extracts on, 1933, 105: 71.

Oestrus after parathyroidectomy, tetany of, 1936, 117: 405.

and lifespan after adrenalectomy, 1937, 119: 675.

and spaying, effect of, on pituitary metabolism, 1936, 115: 130.

body weight and, after suprarenalectomy, 1934, 108: 438.

experimental, in ovariectomized guinea pig, 1936, 116: 201.

functions of intermittent contractions of, 1936, 117: 86.

in rat, relation of uterine activity to, 1931, 98: 153.

multiple ovaries and, 1930, 93: 650.

relation of rate of rhythmic contractions of rat uterus to, 1930, 93: 684.

See Estrus.

Oil enemas and colon motility, 1937, 118: 775.

Oleic acid, influence of bile on absorption of, 1935, 112: 669.

Olfaction, effects of large cortical lesions on, 1935, 111: 257.

Olfactory and trigeminal conditioned reflexes, 1937, 118: 532.

Olfactory-respiratory reflex, effect of anesthesia on, 1936, 115: 579.

Oophorectomy and pregnancy, 1936, 114: 399.

Opossum and marmot, adrenalectomy in, 1936, 115: 618.

Optic cortex and retina, electrograms of, 1936, 117: 338.

response of, to retinal stimulation, 1934, 108: 397.

responses of, to stimulation of optic nerve, 1936, 117: 292.

visual and integrating mechanisms of, 1937, 120: 604.

Optic cortex response of rabbit, form of, 1933, 103: 173.

Optic nerve, discharge of impulses in, after short flashes of light, 1933, 105: 45.

Optic nerve fiber groups, 1933, 106: 460.

Optic nerve fibers of Pecten irradians, discharge of impulses in, 1937, 119: 328. of vertebrate retina, impulses in, 1935, 113: 59.

Optic nerve stimulation, cortical response to, 1933, 103: 159.

Optic pathway, excitability of, 1933, 103: 213.

Optic stimuli in rabbits, effect of lack of, 1932, 100: 46.

Optical recording, technique of, 1933, 105: 44.

Organ development on limited salt intake, 1936, 116: 516.

Organ weights in pigeons, pituitary hormones and, 1931, 98: 121.
of growing dogs, chronic effects of exercise on, 1932, 99: 512.

Oscillograph beam, non-mechanical method for production of automatically synchronized voltages for spreading of, 1934, 109: 94.

Osmosis into frog skin, 1931, 96: 587.

Osmotic exchanges within the frog, 1931, 96: 598.

Osmotic pressure, bound water and edema in perfused hearts, 1931, 96: 541.

micromethod of measuring, 1935, 113: 5.

of blood and urine, effect of sucrose on, 1935, 113: 72.

of colloids, criteria for measurement of, 1932, 101: 409.

of colloids in biological fluids, 1933, 105: 97.

of colloids of lacteal lymph and intestinal absorption, 1932, 101: 434.

of proteins in blood serum and lacteal lymph, 1932, 101: 421.

Osmotic relations between blood and body fluids, 1933, 103: 143.

between blood and digestive fluids, 1933, 104: 476.

Osmotic relationships in the egg, 1932, 101: 57.

Osteoporosis, metabolic studies in, 1936, 114: 383.

Ouabain and electrocardiogram from specific muscle lesions, 1935, 113: 110.

Ova, development of, oestrin injections and, 1935, 111: 201.

experimental activation of, 1936, 116: 121.

Ovarian activity and pituitary circulation, 1932, 102: 505. induction of, during anoestrum, 1933, 104: 165.

Ovarian cycle and adrenal glands, 1934, 107: 207.

Ovarian development, interactions of gonad stimulating hormones in, 1934, 109:

Ovarian extract, effect of, on motility of contracting uterus, 1930, 93: 645.

Ovarian extracts, effect of, on activity of white rat, 1930, 93: 646.

Ovarian hormone and basal metabolism, 1936, 115: 645.

and metabolism, 1931, 97: 82.

in experimental menstruation, 1936, 117: 381.

Ovarian hormones and menstrual cycle of monkey, 1935, 113: 238.

effect of, on B.M.R. of castrate women, 1935, 113: 29.

hypophyseal and, interaction of, 1932, 102: 241.

influence of, on uterine endometrium of rabbits and monkeys, 1930, 93: 659. relation of, to reflex time in rat, 1931, 96: 214.

, 1936,

Ovarian response to pituitary and pregnancy urine, 1934, 108: 331.

Ovarian stimulation in hypophysectomized rabbits, 1933, 104: 44.

Ovarian substances, effect of, on excised rat uterus, 1932, 99: 552.

Ovarian tissues, human, hormone content of, 1930, 92: 127.

Ovarian weight, augmentation of, zinc sulphate, Antuitrin S and thyroid implants and, 1937, 118: 316.

Ovariectomized guinea pig, experimental induction of oestrus in, 1936, 116: 201.

Ovariectomized women, effect of theelin and amniotin on BMR and hot flashes of, 1936, 116: 159.

Ovariectomy in monkey, menstruation after, 1931, 99: 271.

Ovaries, immature, response of, to pituitary extracts, 1934, 108: 1.

multiple, and oestrous cycle in rat, 1930, 95: 40.

multiple, in mice, 1933, 104: 117.

of monkey, effect of pregnancy urine on, 1934, 108: 528.

relation of hypophysis and, to uterine bleeding, 1932, 100: 8.

Ovary, hypertrophy of, in relation to ovarian hormone, 1933, 105: 30. influence of, on motility of non-gravid uterus, 1931, 97: 706. mature, pituitary hormones and, 1935, 111: 361.

rôle of, in uterine activity, 1933, 105: 566.

Ovary weight responses to menopause urine injections, 1937, 120: 486.

Ovulation, electrical detection of, 1937, 119: 387.

fertilization and early development of mammalian egg, 1936, 116: 45.

follicular growth rate and, 1937, 120: 126.

human, 1936, 116: 133. in monkey, 1937, 119: 416.

in primates, 1931, 96: 628.

in rabbit, 1931, 98: 209, 406.

in rabbit, 1932, 99: 332.

in rabbit, action of progestin and progesterone on, 1937, 119: 512.

in rabbit after stimulation of hypothalamus, 1937, 119: 329.

in rabbit, electrical studies of, 1937, 120: 724.

in rabbit, neural basis of, 1935, 113: 18.

in rabbit, neural basis of, 1937, 119: 280.

mechanism of, 1931, 97: 520.

prolan-induced, relation of hypophysis to, 1933, 106: 48.

relation of corpora lutea to, 1932, 101: 545.

Ovulation hormone in rabbit, 1936, 116: 128.

Ovulation reaction in Amphibia, induced, specificity of, 1935, 113: 32.

Oxidation and stabilization by epinephrine, 1934, 108: 360.

in medullated nerve, after-potential and, 1933, 104: 320.

of acetylcholine by tissues, 1933, 104: 438.

of ingested galactose in dog, 1935, 110: 531.

of sugar in blood, glycolysis and, 1932, 99: 408.

Oxidation-reduction potential of cell suspensions, relation of degree of reduction of intracellular cytochrome to, 1936, 116: 8.

Oxidations, pulmonary ventilation and impairment of, 1932, 99: 357.

Oxidizing enzymes in brain extracts, 1937, 119: 34.

Oxy- and carboxyhemoglobin of blood and muscle, 1933, 103: 75.

Oxygen absorbed through skin, effect of, on vascular reaction to stasis and to histamine, 1934, 109: 42.

alveolar, and respiration, 1930, 94: 300.

and carbon dioxide content of normal human blood, 1937, 118: 225.

at 3 atmospheres pressure, effects of, 1936, 114: 436.

at increased barometric pressures, effect of, on mammalian organism, 1937, 119: 268.

carbon dioxide and cerebrospinal fluid, 1932, 99: 570.

carbon dioxide and, rôle of, in regulation of intrauterine respiratory movements, 1937, 119: 153.

dissolved, ability of fishes to remove, from sea water, 1930, 93: 417.

in acute compressed-air illness, 1936, 114: 526.

in counteracting alcoholic intoxication, 1934, 107: 610.

lowered alveolar, and respiration, 1932, 100: 202.

partial pressure of, and body temperature, 1936, 116: 327.

Oxygen consumption after Roentgen radiation, 1932, 99: 454.

blood flow and, of various organs, 1937, 118: 368.

cardiac rate and, 1935, 113: 654.

during cardiac inhibition, 1934, 109: 286.

effect of menstrual cycle on, 1931, 96: 1.

influence of pituitary extracts on, 1937, 119: 381.

in nerve, blood constituents and, 1935, 111: 697.

of dog tissues, effect of bile acids on, 1935, 113: 127.

of dog tissues, effect of bile salts on, 1936, 115: 82.

of frog muscle, diathermy and, 1932, 99: 608.

of frog muscle, viosterol and, 1935, 113: 464.

of heart-lung preparation, effect of glycine and alanine on, 1930, 93: 675.

of immature rats, 1934, 109: 683.

of isolated muscles, 1931, **96**: 78.

of liver of rat, effect of choline on, 1935, 113: 136.

of muscle, iodoacetic acid and, 1933, 103: 94.

of muscles non-irritable by sugar, 1931, 97: 635.

of perfused turtle heart, 1935, 111: 51.

of rabbit bone marrow, 1934, 110: 61.

of resting muscle, 1933, 103: 89.

of stimulated nerve, 1933, 104: 303.

of thyroid tissue in vitro, effect of thyrotropic pituitary hormone on, 1937, 119: 67.

renal, direct determination of renal blood flow and, 1937, 118: 667.

with advancing age, 1937, 119: 28.

with hemoglobin-Ringer, 1933, 105: 74.

Oxygen content of blood, relation of changes in blood-flow to, 1929, 91: 115.

Oxygen cost of clinical function test, 1935, 113: 115.

Oxygen debt, anaerobic, of frog nerve, 1930, 92: 349.

and lactic acid in muscular contraction, 1933, 106: 689.

Oxygen deficiency and CO₂ in visual intensity discrimination, 1936, 117: 75. carbon dioxide and temperature regulation, 1937, 120: 190.

effect of, on breathing, 1932, 101: 647.

Oxygen dissociation curve of blood at high altitude, 1936, 115: 292.

Oxygen exchange and circulation, effect of temperature on, 1937, 119: 93.

Oxygen lack, response of nerve to, 1930, 92: 498.

Oxygen poisoning, acute, rôle of CO2 in producing, 1934, 109: 96.

rôle of CO2 in symptoms of, 1934, 108: 652.

Oxygen pressure, high, blood lactic acid under, 1932, 102: 439.

high, effects of, 1934, 107: 13, 29.

high, periodic respiration and, 1932, 100: 192.

ion

plants

ies of.

01.

is-

Oxygen pressures, high, effect of, on man, 1935, 110: 565.

Oxygen pulse in girls during rest and exercise, 1931, 96: 126.

Oxygen rich air, effect of, on heart rate of dogs, 1930, 92: 436.

Oxygen tension and urine production in frogs, 1935, 111: 75.

Oxygen tensions, reduced, leukocyte counts at, 1935, 113: 166.

Oxygen uptake of tissues, dinitrophenol and, 1934, 109: 232.

effect of cyanide, etc., on, 1934, 108: 80.

Oxygen usage of uterine muscle of sow, 1932, 99: 631.

Oxygen usage reaction, excess, of silicotic individuals in exercise, 1935, 113: 115.

Oxygen use and urea excretion in rat, 1933, 106: 745.

Oxygen utilization in legs of men, 1930, 94: 459.

Oxygen want, blood composition and, 1931, 98: 373.

Oxytocic activity of cerebrospinal fluid, 1933, 103: 244.

P

Pace maker of Limulus heart, 1930, 93: 178.

Pacemaker and atrial stimuli, heart rhythm following, 1936, 116: 358.

Pacemaker mechanism in Limulus, potential analysis of, 1936, 117: 686.

Pacemakers of brain waves, 1936, 116: 604.

Pacinian corpuscles, function of, in vascular control, 1935, 114: 77.

Pain in peptic ulcer, 1931, 97: 561.

produced by cutaneous injury, effect of counterirritation on, 1936, 116: 56.

Pain-elements in arteries, 1934, 110: 191.

Pain-endings, stimulation of, 1934, 107: 594.

Pain fibers from heart, path of, 1936, 114: 688.

·Pain irradiation, effect of, on temperature sensations, 1933, 104: 537.

Pain sensibility of arteries, 1933, 104: 259, 267.

Palatine and pharyngeal respiratory reflexes, 1936, 116: 505.

Palsy, experimental pseudo-bulbar in cat, 1935, 111: 571.

Pancreas, activation of, by peptone and histamine, 1931, 98: 42.

and liver, rôle of, in dextrose tolerance, 1934, 109: 155.

circulation in the islands of Langerhans, 1930, 95: 186.

effect of, on rat, 1930, 91: 513.

effect of secretin on respiration of, 1933, 103: 232.

external secretion of, during hyperglycemia, 1930, 94: 17.

fat metabolizing hormone of, 1936, 117: 175.

histophysiology of, 1933, 105: 9.

influence of, on serum phosphatase, 1937, 118: 541.

in-vivo autolysis of, 1930, 93: 647.

lesions in, after glucose injection, 1936, 116: 194.

liver fat of depancreatized dogs fed lecithin and, 1935, 110: 545.

metabolic activity of, 1933, 106: 509.

metabolism of, 1933, 105: 91.

response of, to secretin, 1934, 110: 198.

secretory activities of, 1934, 107: 94.

studies on, 1929, 91: 220.

substance in, which permits survival and prevents liver changes in depancreatized dogs, 1936, 116: 36.

volume changes of, 1930, 93: 463.

Pancreas extract and deposition of liver fat, 1937, 119: 783.

Pancreatectomy, effect of insulin after, 1933, 103: 45.

effect of, on blood fat, 1932, 99: 619.

effect of, on nitrogen-sparing action of glucose, 1937, 120: 681.

formation of glycogen after, 1932, 102: 409.

in the pig, 1937, 118: 321.

15.

ın-

intestinal absorption of insulin after, 1937, 120: 733.

Pancreatectomized dogs, respiratory quotient of muscle of, 1934, 110: 352.

Pancreatic activity, serum amylase in relation to, 1932, 102: 209.

Pancreatic atrophy after administration of betaine hydrochloride, plasma lipids in, 1935, 113: 27.

Pancreatic diabetes, respiratory metabolism of, 1933, 104: 298.

specific dynamic action of protein in, 1936, 115: 419.

Pancreatic drainage, complete, lethal factors in, 1931, 97: 459.

Pancreatic duct pressure and blood flow through pancreas, 1933, 106: 454.

Pancreatic fistula, permanent closeable, 1936, 116: 13.

Pancreatic grafts by new technique, 1935, 113: 118.

Pancreatic juice, continuous secretion of, in dog, 1931, 97: 547.

relation of bile to secretion of, 1934, 107: 584.

relation of, to fatty infiltration and degeneration of livers of depancreatized dogs, 1936, 116: 122.

relation of, to liver degeneration in depancreatized dog, 136, 117: 166.

relation of, to pancreatic diabetes, 1936, 116: 70.

relation of, to pancreatic diabetes, 1936, 117: 160.

Pancreatic lipase, specificity of, 1932, 100: 266.

Pancreatic secretion, action of nitrogenous bases of gastric juice on, 1936, 115: 604.

and digestive absorption, 1936, 116: 210.

continuous, 1932, 102: 193.

continuous, in rabbit, 1931, 96: 343.

in rabbit, nervous control of, 1931, 96: 349.

nervous control of, 1937, 119: 724.

regulation of, 1930, 94: 13, 17.

restoration of, by peptone and histamine, 1931, 97: 543.

Pancreatitis, experimental, cause of death in, 1932, 101: 29.

Papain,-is it harmful, 1937, 119: 413.

Paramecium, cyanide insensitivity of, 1931, 97: 524.

Paramecium caudatum cultures, population growth and survival in, 1936, 116: 26.

Parasites, intestinal, action of extracts of, 1931, 98: 18.

Parasympathetic drugs, effect of epinephrine and, on intestine, 1932, 100: 313.

Parasympathetic fibers in vagus, 1932, 101: 274.

Parathormone and gastric motility, 1930, 91: 554.

and inorganic constituents of blood, 1930, 92: 25.

and the neuromuscular system, 1935, 111: 466.

calcium and, effect of, on serum calcium, 1937, 118: 52.

effect of, on basal metabolism of normal dogs, 1934, 110: 1.

ineffectiveness of, in parathyroidectomized rachitic dogs, 1936, 116: 93.

Parathyroid deficiency, action of liver extract in, 1930, 92: 35.

and guanidine of blood, 1933, 106: 738.

Parathyroid extract and vitamin D, diet and response to, 1933, 105: 585, 596, 608, 621.

effect of ergosterol and, on blood calcium, 1936, 115: 701.

in sympathectomized animals, 1930, 95: 614.

placental transmission of, 1933, 104: 530.

Parathyroid glands, ossification in absence of, 1931, 97: 517.

Parathyroid hormone, action of, after nephrectomy, 1936, 115: 514.

and state of calcium in blood, 1935, 113: 141. chemistry and physiology of, 1931, 98: 417.

effect of calcium of adrenalectomized rat, 1935, 113: 108.

Parathyroid hormone action, 1932, 102: 350.

Parathyroid tetany, contributory factors in, 1931, 98: 194.

dietary control of, 1933, 105: 32.

effect of thyroid hormone in, 1931, 96: 45.

in rat, 1933, 105: 3.

in rat, effect of calcium gluconate on, 1933, 105: 34.

in rat, influence of temperature on, 1935, 113: 48.

intravenous use of viosterol in, 1931, 97: 554.

occurrence of guanidine as factor in, 1933, 105: 13.

relation of spleen to, 1930, 92: 648.

Parathyroidectomy, blood phosphorus and serum calcium after, 1930, 92: 1.

in the fowl, 1936, 116: 154.

relation of vagi to hyperemia and erosions in gastro-intestinal tract after, 1935, 113: 23.

tetany of oestrus after, 1936, 117: 405.

vasomotor reflexes following, 1930, 93: 691.

Parathyroids of chicks, effect of irradiation on, 1930, 94: 91.

relation of, to fluorine of teeth, 1933, 103: 480.

Parotid saliva in dog, nervous influences on, 1931, 97: 668.

reflex secretion of, 1937, 119: 493.

Parturition, posterior hypophysis not essential in, 1932, 99: 345.

Pellagra-producing diet, 1933, 104: 18.

Pemphigus blood, detoxification experiments on, 1934, 109: 69.

Pepsin, effect of histamine on secretion of, 1931, 97: 124.proteins as stimulants for secretion of, 1933, 105: 697.

Peptone and histamine, activation of pancreas by, 1931, 98: 42.

Peptones, effect of, on secretion of enteric juice, 1935, 113: 568.

Pericardial capacity in dogs, 1935, 113: 42.

Pericardium, function of, 1930, 94: 162.

Peripheral summation, quantitative study of, 1933, 105: 38.

Peristalsis, effect of intravenous calcium chloride on, 1931, 97: 142.

Perivascular seep valves in exchange of body fluids, 1936, 114: 491.

Permeability of frog liver to lipoid-insoluble substances, 1936, 116: 71.

of muscle in SCN contracture, 1931, **96**: 203, 477. **Perspiration,** insensible, and galvanic skin reflex, 1935, **111**: 55. sensible and insensible, 1937, **120**: 277.

pH and action of mammalian A nerve fibers, 1937, 118; 600.

effect of, on absorption of sugars, 1934, 109: 638.

of blood and saliva, pulmonary ventilation and, 1936, 116: 174.

of glomerular and tubular fluid in frogs and necturi, 1934, 109: 76.

of oxygenated Locke's solutions, a simple method for controlling, 1931, 97: 567.

sensitivity of striated muscle to changes in, 1933, 105: 353.

Phagocytosis, respiration of, 1933, 103: 235.

Pharmacodynamic reactions of Arctomys monax, 1933, 105: 69.

Pharyngeal inspiratory reflex of the cat, 1934, 109: 105.

Pharyngeal respiratory reflexes, palatine and, 1936, 116: 505.

Phase angle, mechanisms in clinical measure of, 1936, 114: 366.

Phenol red, excretion of, by dog, 1935, 113: 602.

renal excretion of, 1937, 118: 739.

Phenolsulphonephthalein, glomerular excretion of, 1929, 91: 178.

Phloridzin and hepatectomy, glucose utilization after, 1936, 117: 323.

action of, on glucose reabsorption in amphibian renal tubule, 1937, 118: 130.

action of, on metabolism of carbohydrate, 1932, 101: 621.

and gastric hunger contractions, 1930, 92: 690. effect of, on blood fat, 1932, 99: 619.

effect of, on nitrogen-sparing action of glucose, 1937, 120: 681.

Phlorizinized dogs, comparative effects of oral administration of sucrose, fructose and glucose to, 1936, 116: 107.

Phosphatase, serum and urine, after bile duct ligation, 1937, 120: 696. serum, influence of pancreas on, 1937, 118: 541.

Phosphatase activity, growth hormone and, 1935, 112: 477.

Phosphate clearance in urine, 1933, 106: 1.

935.

Phosphate excretion by amphibian kidney, 1937, 118: 167.

Phosphates of blood after strenuous muscular exercise, 1933, 103: 367.

Phosphocreatine in chemical changes in contracting muscle, 1934, 108: 521. resynthesis of, after muscular contraction, 1935, 112: 116.

Phospholipid of tissues after thyroxine injection, 1935, 111: 138.

Phospholipid metabolism in developing abids 1026 115: 287

Phospholipid metabolism in developing chick, 1936, 115: 287.

Phosphorus, calcium and, in diet, effects of, 1933, 105: 585, 596, 608, 621.
inorganic, calcium and, in horse serum, 1936, 115: 90.

Phosphorus changes, carbohydrate and, in prolonged muscle contraction, 1937, 118: 232.

Phosphorus compounds in heart and striated muscles of dog, 1934, 110: 105. in perfused dog heart, 1934, 110: 97.

in perfused dog limb, 1934, 110: 102.

Phosphorus metabolism, calcium and, 1931, 97: 142.

calcium and, effect of anterior hypophyseal extract on, 1937, 118: 588.

Photosensitivity in man, abnormal, 1936, 116: 12.

Photosensitization in man, mechanism of, 1935, 113: 350.

Phrenic, crossed respiratory impulses to, 1936, 117: 495.

Physical training, respiratory response to, 1929, 91: 103.

Physostigmine and atropine, blood sugar level after, 1937, 118: 300.

Pia vessels, reactions of, 1932, 101: 35.

Pial vessels, response of, to sympathetic stimulation, 1936, 114: 278.

Pilocarpin, gastric secretion after histamine and, 1931, 97: 69.

influence of atropin and, on thirst, 1931, 98: 35.

Pilocarpine and insulin secretion, 1934, 107: 526.

atropine and acetylcholine, blood sugar after, 1936, 114: 551.

atropine and, effect of, on emptying time of human stomach, 1936, 115: 104. atropine and, effect of, on gastric emptying in dogs, 1936, 115: 113.

Pitch discrimination in the dog, 1935, 112: 323.

Pitocin, responses of non-gravid uterus to, 1930, 92: 430.

Pitressin and water interchange in frogs, 1931, 98: 255.

effect of, on carbohydrate reserves of rabbit, 1931, 97: 215.

Pitultary and pregnancy urine, ovarian response to, 1934, 108: 331. and progestin, response of uterus to, 1936, 115: 376.

and prolan in males, differences between, 1933, 105: 497.

and water imbibition by frogs, 1936, 115: 275.

anterior, castration cells of, 1932, 101: 239.

anterior, effect of adenotropic fraction of, on glycosuria of hypophysectomizeddepancreatized and adrenalectomized-depancreatized cats, 1936, 116: 96,

anterior, effect of castration on, 1932, 101: 309.

anterior, female sex hormones of, 1931, 97: 291.

anterior, ketogenic hormone of, 1935, 113: 12. anterior,-prolactin, a hormone of, 1933, 105: 191.

anterior, relation to male hormone, 1932, 101: 218.

dog, implantation of, into immature rats, 1935, 113: 8.

effect on, of a synthetic oestrogenic agent, 1936, 115: 665.

in experimental cretinism, 1936, 117: 518.

pregnancy urine extracts and, 1934, 110: 159.

relation of, to cyclical phenomena in rats, 1933, 106: 80.

thyrotropic and gonadotropic substances in, 1935, 110: 692.

Pituitary activity, anterior, effect of oestrin on, 1936, 114: 508. Pituitary circulation, ovarian activity and, 1932, 102: 505.

Pituitary diuresis, relation of thyroid to, 1933, 105: 559.

Pituitary extract and pH of serum and urine, 1933, 106: 505.

Pituitary extracts, anterior, calorigenic action of, 1935, 110: 584.

augmented action of, by copper, 1936, 117: 68.

effect of, on blood constituents, 1932, 101: 711. effects of, on basal metabolism, 1931, 96: 640.

in monkey, pregnancy urine and, 1933, 106: 145.

response of immature ovaries to, 1934, 108: 1.

Pituitary gland in rat, effects of extirpation of, 1930, 95: 481.

Pituitary gland influences on water balance in rat, 1937, 119: 5.

Pituitary gonadotropic extracts, augmentation of, 1937, 119: 574.

in immature male rats, 1936, 114: 483.

Pituitary growth hormone, food intake and growth, 1935, 111: 341. Pituitary hormone and development of female rats, 1932, 102: 355.

and growth rate of rats, 1932, 99: 379.

and oxygen use of thyroid in vitro, 1937, 119: 70.

in cattle, assay of, 1935, 113: 259.

posterior, in metabolism, 1931, 97: 215.

posterior, in metabolism, 1931, 99: 253.

posterior, in metabolism, 1932, 102: 402.

reaction of crop-gland to, 1931, 97: 617.

Pituitary hormones and organ weights in pigeons, 1931, 98: 121.

and the mature ovary, 1935, 111: 361.

anterior lobe, calorigenic effects of, 1930, 93: 666.

effect of, on reproductive tract of male rat, 1931, 99: 197.

Pituitary implants and placentomata in rats, 1931, 98: 387.

Pituitary lobe preparations, posterior, antagonistic action of, to insulin, 1930, 95: 7.

Pituitary metabolism, effects of oestrus and spaying on, 1936, 115: 130.

Pituitary preparations, effect of, on basal metabolism, 1930, 95: 396.

Pituitary regulation of water exchange, 1937, 118: 276.

Pituitary secretion in cerebrospinal fluid, 1932, 101: 35.

Pituitary. See Hormone.

Pituitrin, responses of non-gravid uterus to, 1930, 92: 430.

Pituitrin anemia, 1937, 118: 241.

Placenta, endocrine rôle of, 1936, 114: 399.

fetal liver and, glycogenic functions of, 1935, 112: 263.

of chimpanzee, theelin content of, 1935, 110: 593.

ysectomized-6, 116: 96. Placental histaminase, 1937, 119: 294.

Placental hormones, 1931, 97: 513.

Placental permeability to fat, 1933, 103: 73.

Placental transmission, 1932, 100: 21.

of insulin, 1930, 92: 271.

of parathyroid extract, 1933, 104: 530.

Placentomata in rats following gonadal stimulation, 1931, 98: 387.

Plant growth, effect of daylight, darkness and work on, 1935, 113: 22.

Plasma, absorption spectra of vital dyes in, 1937, 120: 494.

disappearance of dye from, 1935, 112: 56.

Plasma bilirubin, increased, after intravenous injection of isoiodeiken, 1934, 109:82.

Plasma calcium after severe muscular exercise, 1936, 115: 539.

Plasma chloride, relation of urine chloride to, 1936, 115: 455.

Plasma concentration of dye, 1935, 113: 61.

relation of rate of creatinine excretion in urine to, 1930, 94: 220.

Plasma dilution after intravenous saline injection, 1936, 117: 102.

Plasma factor, thermolability of, in activation of tissue extracts, 1933, 105: 62.

Plasma phosphate level and its clearance in urine, 1933, 106: 1.

Plasma protein, blood pressure and, of frog. 1929, 91: 265.

in lactating women, 1935, 113: 235.

in normal and fasting rats, 1935, 113: 150.

Plasma volume in dogs during fever and exposure to heat, 1935, 113: 106.

of dogs, effect of ether anesthesia on, 1937, 119: 363.

Plasma volume determinations with dye, 1935, 113: 54.

Plasma. See Blood.

Plasmapheresis and protein regeneration in immunized dogs, 1937, 120: 451.

total, 1936, 116: 1.

total, 1936, 117: 230.

Poikilothermic changes in man and their effect on respiratory exchange, 1937, 119:

Poiseuille's law and capillary circulation, 1933, 103: 432.

Poisons and absorption of chloride by intestine, 1936, 114: 681.

Polarization-capacity, 1929, 91: 83.

Polycythemia, antianemic treatment in, 1935, 114: 194.

experimentally produced, liver treatment in, 1934, 109: 48.

in relation to iron and other elements, 1934, 109: 316.

Polyelectrophysiograph, 1936, 116: 82.

Polyneuritic chick tissue, anaerobic glycolysis in, 1936, 117: 151.

Polyneuritis, vitamin B1 and pyruvic acid oxidation in, 1936, 117: 142.

Polynuclear count, variations in, 1935, 111: 655.

Polypnea secretion in dog, 1931, 97: 107.

Polyuria in diabetes insipidus, primacy of, 1935, 112: 481.

primacy of, in diabetes insipidus, 1935, 113: 578.

Pore theory of Michaelis, 1934, 109: 9.

Portal system and circulating blood volume, 1933, 106: 423.

Postural complex, relation of red nucleus to, 1932, 102: 466.

Postural reactions in lizard, central control of, 1937, 119: 362.

Postural reduction in vital capacity, 1932, 99: 526.

Postural tonus and innervation of single motor neurones, 1929, 91: 345.

Posture and alterations in alveolar CO₂, 1937, 118: 435.

and anhydremia in hypoglycemic dogs, 1934, 109: 422.

and rest, effect of, on cardiac output, 1935, 112: 705.

effect of, on cardiac output, 1937, 120: 329.

1930, **95**: 7.

effect of, on minute volume of heart, 1934, 110: 14. effect of, on oxygen utilization in legs, 1930, 94: 459. standing, cardiac output in, 1936, 115: 268.

temperature and cardiovascular response to, 1932, 100: 383.

Potassium and all-or-none response of cardiac muscle, 1935, 113: 560. and contractions of skeletal muscle, 1935, 112: 147. loss of, in voluntary contraction, 1937, 120: 675. of tissues, adrenalin activity and, 1935, 114: 207.

Potassium-calcium balance and action of nerve fibers, 1937, 118: 613.

Potassium diffusion from resting skeletal muscle, 1935, 112: 139.

Potassium iodide, prolonged administration of, 1933, 105: 98.

Potassium ions, calcium and, effect of, on smooth muscle in situ, 1934, 108: 46.

Potassium salts, effect of, on acid base excretion, 1937, 119: 347.

Potassium shift to muscles, 1935, 112: 41.

Potential difference across gastric membranes, 1937, 119: 763.

Potentials, electrical, of cochlea and auditory nerve in relation to hearing, 1937, 120: 666.

in mammalian A fibers, 1936, 116: 57.

R and T, origin of, from mammalian heart, 1937, 120: 663. See Nerve.

Potentiometer for measurement of e.m.f. of electrodes, 1934, 109: 51.

Potometer in recording daily water intake, 1932, 102: 344.

Precentral lesions, motor recovery from, 1936, 115: 138.

Pregnancy, action of estrin in, 1933, 105: 26.

action of estrin in terminating, 1934, 109: 26. and calorigenic action of thyroxine, 1933, 105: 99. and lactation in extirpation diabetes, 1936, 115: 480.

and menstruation, metabolic studies during, 1931, 96: 191.

anemia of, hydremia as a factor in, 1936, 115: 69.

anemia of, in rat, 1934, 107: 616.

assay of urinary oestrin and gonadotropic substances in, 1936, 116: 18.

basal metabolism and iodine excretion in, 1935, 113: 221.

diurnal changes in liver during, 1934, 108: 567.

effect of barbiturates on, 1934, 109: 29.

effect of, on heart weight/body weight ratio, 1937, 119: 416.

effect on ovulation of injections of urine of, 1932, 99: 332.

in chimpanzee, diagnosis of, 1935, 110: 597. in guinea pigs, blood lipids in, 1936, 114: 635.

in rabbit, ascorbic acid during, 1937, 119: 455.

m rabbit, ascerbic acid during, 1507, 110.

metabolism in, 1930, 95: 592.

metabolism in, 1931, 96: 94, 101, 112.

nutritional anemia of, 1933, 106: 449.

onset of casein formation during, 1933, 103: 643.

oophorectomy and, 1936, 114: 399.

prolongation of, by corpus luteum, 1930, 91: 690. prolongation of, in rat, 1935, 111: 507.

protongation of, in rat, 1990, 111. 007.

protein deficiency and course of, 1937, 119: 474. reproductive hormones and toxemia of, 1934, 107: 128.

uterine motility in, after hypophysectomy, 1933, 104: 331.

vital function levels in, 1930, 93: 684.

Pregnancy prolongation by injection of progesterone, 1937, 119: 330.

Pregnancy, pseudo-, 1934, 109: 96.

mammary development during, 1933, 103: 595.

relation to pituitary, 1933, 106: 80.

relation of stimulus to response in, 1934, 107: 698.

sympathectomy and, 1933, 103: 97.

Pregnancy test, Friedman, in monkey, 1937, 118: 664.

Pregnancy-urine, action of, on uterine motility, 1932, 100: 545.

Pregnancy urine and deciduomata in immature rats, 1933, 104: 693.

and pituitary extracts in monkey, 1933, 106: 145.

by mouth to gonadectomized rats, 1934, 110: 499.

effect of intrafollicular injection of, 1932, 101: 482.

effect of, on hypophysis, 1935, 111: 312.

effect of, on lactating mice, 1933, 103: 30.

effect of, on ovaries of monkey, 1934, 108: 528.

effect of, on reproductive tract and spontaneous activity, 1934, 109: 88.

excretion of gonadotropic substance by normal man after administration of extracts of, 1936, 116: 54.

ovarian response to pituitary and, 1934, 108: 331.

Pregnancy urine extracts and pituitary, 1934, 110: 159.

follicular response to, 1937, 119: 508.

Pregnant mare, source of oestrin in, 1934, 109: 320.

Pressoreceptor reflexes from carotid sinus, 1937, 118: 379.

Pressure, barometric, cerebrospinal fluid gases and, 1934, 107: 164.

Pressure pulse contours in intact animal, 1934, 107; 427, 436.

Pressure pulses and blood pressure values in unanesthetized dogs, 1937, 118: 399. and respiration, determination of, in fetal animals, 1935, 113: 139.

Pressure receptors in isolated carotid sinus, 1935, 110: 708.

Priapism, flexor rigidity and, in spinal cat, 1932, 102: 75.

Progesterone, action of progestin and, on ovulation in rabbit, 1937, 119: 512. inhibition of estrus by, 1937, 119: 623.

Progestin and progesterone, effect of, on ovulation in rabbit, 1937, 119: 512.

and uterine motility in rabbits, 1932, 102: 39.

preparation and chemical properties of, 1930, 92: 174.

quantitative bioassay of, 1937, 120: 100.

quantitative separation of, from oestrin, 1933, 106: 55.

relation to uterine proliferation, 1930, 92: 612.

response of uterus to pituitrin and, 1936, 115: 376.

reversal by, of responses of uterus, 1937, 118: 190.

Prolactin—a hormone of the anterior pituitary, 1933, 105: 191.

and maternal behavior in virgin rats, 1935, 113: 110.

and maternal instinct in virgin rats, 1935, 113: 109.

and milk yield, 1936, 116: 45.

anti-gonad action of, 1937, 119: 610.

crop-gland response of doves and pigeons to, 1936, 116: 7.

induces broodiness in fowl, 1935, 111: 352, 361.

splanchnomegaly associated with action of, 1937, 119: 603.

Prolan and anterior hypophyseal hormones, 1932, 100: 141.

in hypophysectomized animals, 1932, 100: 157.

pituitary and, in males, differences between, 1933, 105: 497.

Pro-secretin, 1935, 112: 511.

Prostate gland, secretory nerves of, 1937, 118: 64.

Prostatic changes produced in mice with esterin, inhibitory action of testosterone on, 1937, 119: 395.

: 46.

ng, 1937,

Prostatic secretion, effect of occlusion of outflow of, 1936, 117; 559. Protamine insulin, intravenous administration of, 1936, 117: 453.

Protein, absorption of, from tissue spaces, 1931, 98: 66.

adequate, synthesis of, in glands in pigeon crops, 1931, 97: 227. and energy metabolism of fasting rats, 1934, 108: 285.

as source of energy in exercise, 1932, 102: 325.

dietary, physical activity and, 1935, 113: 159.

in diet, effects of different amounts of, 1931, 96: 547, 557.

in diet, effects of different amounts of, 1931, 97: 15, 322, 573, 626.

in diet effects of different amounts of, 1931, 98: 266.

in relation to undernutrition of hogs, 1930, 93: 662.

parenteral, in pneumonias, 1937, 119: 281.

permeability of capillaries of dog to, 1931, 97: 40.

permeability of frog capillaries to, 1935, 112: 401.

plasma, in lactating women, 1935, 113: 235.

plasma, in normal and fasting rats, 1935, 113: 150.

specific dynamic action of, in diabetes, 1936, 115: 419.

urine, blood and urine sugar and, in exercise, 1931, 98: 352. Protein content, flow and, of subcutaneous lymph, 1932, 101: 612.

of mammalian lymph, 1931, 97: 32.

Protein deficiency and course of pregnancy, 1937, 119: 474.

Protein fractions of crotalin, activity of, 1931, 97: 22.

Protein hormones, histone combinations of, 1936, 117: 182.

Protein metabolism in pancreatic diabetes, 1933, 105: 300.

relative increase in metabolism of liver and other tissues during, 1931, 97: 117. relation of male hormone to, 1936, 117: 642.

Protein regeneration, plasmapheresis and, in immunized dogs, 1937, 120: 451.

Proteins and amino acids, creatine from, 1935, 113: 647. as stimulants for secretion of pepsin, 1933, 105: 697.

in blood serum and lacteal lymph, 1932, 101: 421. respiratory quotient of, in diabetes, 1931, 96: 331.

Proteinuria, urea clearance and, during exercise, 1936, 117: 658.

Prothrombin in plasma, quantitative determination of, 1936, 114: 667.

Prothrombin deficiency as cause of hemorrhage, 1937, 118: 260.

Pseudopregnancy, 1932, 102: 39.

effect of oestrin on uterine fistula during, 1931, 98: 230.

relation of stimulus to response in, 1934, 107: 698. "Psychic blindness" after bilateral temporal lobectomy, 1937, 119: 352.

Psychic factor in acid inhibition of gastric secretion, 1937, 120: 619.

Psychogalvanic reflex and polarization-capacity of skin, 1930, 94: 77.

Psychologic effects of high barometric pressure, 1935, 112: 554.

Psychophysiology of pitch and loudness, 1936, 116: 151.

Ptyalin content of human saliva in old age, 1937, 119: 600.

Puberty, chronology of certain physical changes of, 1936, 116: 88.

Pulmonary artery, nerve plexus between aorta and, 1933, 104: 253.

Pulmonary circulation, dynamics of, 1937, 119: 344.

dynamics of, 1937, 120: 624.

Pulmonary hyperventilation, energy requirement of, 1933, 106: 291.

Pulmonary motion, relation of, to thoracic movements, 1932, 102: 167.

Pulmonary nitrogen, body equilibration with, 1935, 112: 545.

Pulmonary ventilation and impairment of oxidations, 1932, 99: 357.

and pH of blood and saliva, 1936, 116: 174.

cyanide in, 1933, 105: 101, 311.

energy requirement for varying degrees of, 1933, 105: 75. sulphide and, 1933, 105: 337.

Pulmonary artery pressures, 1933, 105: 562.

Pulmonary. See Respiration.

Pulse, bigeminal, in rabbits, 1930, 94: 568.

bigeminal, in rabbits, 1930, 95: 190.

bigeminal, in rabbits, 1931, 96: 243.

finger volume, recorded photoelectrically, 1937, 119: 334. oxygen, during rest and exercise, 1931, 96: 126.

Pulse contour in relation to sound production, 1934, 107: 420.

Pulse contours, pressure, in intact animal, 1934, 107: 427, 436.

Pulse pressure and albuminuria, 1932, 101: 357.

Pulse rate, effect of menstrual cycle on, 1931, 96: 1.

Pulse wave velocity, 1932, 100: 89.

Pulsus bigeminus in rabbits, 1931, 98: 344.

Pupillary dilatation, stimulation of tegmentum and, 1931, 98: 687.

Pupillary inequality and lesions of occipital cortex, 1937, 120: 144.

Pupillo-constrictor reflex and superior colliculus, 1935, 111: 91.

Pylorectomy, effect of, on acid secretion of fundus, 1937, 118: 505.

Pyloric and antral reflexes in gastric evacuation, 1934, 108: 683.

Pyloric obstruction in rats, 1932, 102: 605.

Pyloric sphincter, effect of anoxemia on, 1935, 111: 330.

effect on, of acid in stomach and duodenum, 1931, 97: 546.

Pyloric sphincter reaction to pressure changes in duodenum, 1935, 113: 131.

Pylorus and acid secretion of stomach, 1936, 116: 685.

Pyruvic acid oxidation in polyneuritis, vitamin B₁ and, 1936, 117: 142.

Q

Quinolyl-ethanol, physiological effects of, 1934, 109: 69.

R

Rabbit, reaction of, to electric currents, 1933, 105: 457.

Rachitic bone, x-ray diffraction study of, 1934, 108: 74.

Radiant energy, effect of, on skin temperature, 1937, 118: 372.

Radiation and convection by partitional calorimetry, 1936, 116: 669.

and excitability of smooth muscle, 1936, 115: 194.

differential physiological effects of, 1932, 101: 54.

effect of, on pressor action of nicotine, 1932, 101: 100.

Roentgen, increased metabolism after, 1932, 99: 454.

stimulation of end organs of, skin by, 1936, 116: 116.

ultraviolet, effect of, on lens protein, 1935, 113: 538.

ultraviolet, effect of, on lens protein in presence of salts and sugars, 1936, 116: 27. ultraviolet, in precipitating protein and producing cataract, 1936, 116: 20.

Radiation effect on blood pressure and cardiac output, 1936, 114: 594.

Radio waves, short, and heat, effect of, on elasticity of aorta, 1933, 104: 347.

short, effect of, on perfused cat heart, 1933, 104: 349.

Rattlesnake venom (crotalin), effect of, on swine, 1932, 100: 339. effect of, on lower forms of life, 1930, 92: 342.

physiology of, 1930, 92: 317, 329, 335, 342, 345, 695, 698, 705.

Reciprocal reaction in cat as possible local mechanism, 1930, 95: 174.

: 117.

Rectal stimulation, effect of, on reflex and humoral gastro-intestinal inhibition, 1937, 120: 750.

Red blood cells, occlusion of vessels by, 1937, 120: 59.

See Blood.

See Erythrocytes.

Red nucleus, relation of, to postural complex, 1932, 102: 466.

Reflex, Achilles and crossed flexion, in rat, 1931, 97: 282.

and humoral gastro-intestinal inhibition, 1937, 120: 750.

autonomic, influence of forebrain on, 1937, 120: 257.

cardiovascular carotid sinus, 1936, 115: 249.

conditioned, 1935, 112: 323.

conditioned, diuresis by, 1931, 96: 356.

conditioned, reward and response to pain in, 1933, 106: 71.

crossed extension, after spinal transection, 1935, 112: 152.

erossed extension, reversal in, 1930, 95: 573.

flexion, frequency of motor nerve impulses in, 1931, 98: 484.

flexion recorded with muscles in situ, 1931, 97: 545.

galvanic skin, after transection of cord, 1930, 93: 468.

inhibition of knee jerk from intestinal organs, 1937, 120: 340.

linguo-maxillary, 1930, 94: 118.

psychogalvanic, and polarization-capacity of skin, 1930, 94: 77.

salivary conditioned, 1930, 94: 553.

salivary conditioned, avitaminosis-A and, 1936, 115: 215.

scratch, effect of respiration on, 1931, 98: 368.

viscero-pannicular, 1935, 112: 573.

vomiting, from distended pyloric pouch, 1931, 99: 156.

Reflex action in spinal cat, spread of, after intravenous sodium cyanide, 1937, 119: 386.

Reflex activation of sympathetic system in spinal cat, 1933, 106: 251.

Reflex activity, action currents in cerebral cortex during, 1930, 93: 693.

changes in, induced by spinal block, 1934, 110: 362.

Reflex afferents, specific, 1935, 112: 231.

Reflex changes of heart rate, 1931, 98: 430.

Reflex control of coronary blood flow, 1935, 113: 399.

Reflex effects, antagonistic, balancing of, in a spinal center, 1930, 93: 649.

on respiratory rate and amplitude, 1936, 116: 380.

Reflex liberation of circulating sympathin, 1935, 113: 555.

Reflex production of inhibitory sympathin, 1937, 119: 425.

Reflex response in hypo- and hyperthyroidism, 1930, 92: 457.

Reflex responses of nictitating membrane, 1935, 113: 112.

of the nictitating membrane, 1935, 112: 422.

Reflex standing, Stütz reaction and, in spinal cat, 1930, 93: 682.

Reflex summation and inhibition, 1937, 120: 798.

Reflex thresholds in cat during spinal shock, 1935, 111: 263.

Reflex time, acid-base equilibrium and, 1930, 91: 365.

in rat, relation of ovarian hormones to, 1931, 96: 214.

Reflexes after lesions in pyramids of medulla, 1934, 109: 178.

blood-pressure, in sympathectomized animals, 1936, 115: 711.

cardiac, 1935, 113: 229.

conditioned, external inhibition of, 1934, 108: 608.

conditioned, olfactory and trigeminal, 1937, 118: 532.

conditioned, structures of reflex arc for establishment of, 1937, 119: 313.

ition,

119:

conditioned to sound and vibrations, 1932, 101: 98. crossed, in the acutely spinal cat, 1936, 115: 78. evoked by stimulation of fibres of lowest threshold, 1934, 109: 49. extinction of responses and, 1936, 117: 609. extraocular, 1932, 100: 78. hind-limb, in spinal cats, 1930, 94: 471. in spinal cats, 1930, 93; 659. in spinal standing of cat, 1932, 102: 183. nictitating membrane, afferent nerves in, 1936, 115: 308. of cat embryos, 1934, 109: 113. olfactory-respiratory, and anesthesia, 1936, 115: 579. pressoreceptor, from carotid sinus, 1937, 118: 379. proprioceptive, inspiratory augmentation of, 1931, 97: 329. proprioceptive respiratory, of vagus nerve, 1937, 119: 517. righting, 1933, 105: 7. righting, after bilateral cortical lesions, 1937, 120: 225. spinal, 1932, 101: 62. spinal, effect of ephedrine on, 1932, 101: 60. spinal non-segmental, 1936, 114: 457.

spinal vasomotor, and variations in blood pressure, 1936, 117: 619. study in, 1935, 112: 231.

tendon, central and peripheral latencies in, 1931, 99: 167. vasomotor carotid sinus, sympathectomy and, 1937, 120: 195.

vasomotor, in sympathectomized cats, 1931, 98: 454. vestibular, interaction of, 1933, 105: 122.

visceral, from surface stimulation, 1930, 93: 629.

Refractory period of nictitating membrane, 1937, 120: 514. Refractory periods in turtle heart, 1935, 112: 610.

Regeneration in crab influenced by chemical substances, 1932, 101: 49. of taste buds, 1936, 116: 225.

Renal activity, effects of feeding and maintenance diet, on, 1932, 101: 625. effects of xylose and sucrose on, 1932, 101: 639. influence of pituitary extracts on, 1937, 119: 405. regulation of, 1930, 94: 220.

Renal blood flow and clearance of hippuran, 1937, 118: 739. and renal oxygen consumption, direct determination of, 1937, 118: 667. and urea excretion, 1934, 109: 336.

hypertension and, 1936, 116: 616.

in diuresis and antidiuresis, 1937, 118: 95. in man, estimation of, 1937, 119: 406.

Renal blood pressure and glomerular filtration, 1934, 107: 227. Renal circulation, control of urine formation by, 1936, 117: 366.

Renal clearance of hexamethenamine in dog, 1936, 115: 706. of sodium ferrocyanide, 1935, 113: 611, 629.

Renal denervation, effects of, 1934, 110: 392.

Renal disease, phenol red, inulin and urea clearances in, 1936, 116: 62.

Renal enlargement, vitamins B and G in, 1931, 97: 210.

Renal excretion, 1934, 108: 221.

effect of adrenal cortical extract on, 1937, 119: 328.

of bile acids, blood clearance and, after injection of cholic and desoxycholic acids, 1936, 117: 665.

of creatinine in chicken, 1937, 119: 401.

```
of creatinine in man, 1935, 113: 119.
```

Renal function, 1930, 94: 1.

adrenal cortex and, 1933, 104: 399.

effect of rigid casts on, 1932, 101: 573.

Renal function test in dogs, 1936, 115: 27.

Renal insufficiency, effect of, on action of parathyroid hormone in dog, 1936, 115:
514.

Renal nerves, extrinsic, and experimental hypertension, 1935, 112: 166.

Renal parenchyma, innervation of, 1931, 96: 40.

Renal response to acoustic stimuli, 1930, 91: 499.

Renal secretion, Nussbaum's experiment on, 1937, 119: 175.

Renal, supra-, cortical hormone and nitrogen metabolism, 1935, 113: 335.

Renal tissue of Houssay dogs, respiratory quotient of, 1937, 118: 297.

Renal tubule after injury by mercuric chloride, 1937, 119: 302.

amphibian, acidification of urine in, 1937, 118: 144.

amphibian, chloride absorption in, 1937, 118: 121.

amphibian, fluid from known regions of, 1937, 118: 111.

amphibian, glucose reabsorption in, 1937, 118: 130.

and glomerulus, 1930, 95: 493.

effect of mercury on, 1934, 109: 31.

reabsorptive function of, 1930, 93: 574.

Renal weight, 1933, 106: 571.

Renal. See Kidney.

Reproduction, age and, relation of hemoglobin to, 1931, 98: 311.

and cortico-adrenal function, 1934, 109: 15.

and lactation, diet in relation to, 1931, 96: 139.

and lactation, relation of adrenal cortex to, 1936, 115: 627.

and viability of young, maternal diet and, 1936, 115: 147.

effect of estrin injections on, 1930, 95: 630.

effect of feeding liver on growth and, 1933, 105: 262.

effects of protein in diet on, 1931, 97: 322.

in birds, 1930, **94**: 535; 1931, **97**: 343, 581, 617; 1931, **98**: 121; 1933, **105**: 428; 1934, **107**: 343.

influence of fluorine on, 1933, 106: 356.

in guinea pig, vitamin C and, 1930, 95: 64.

in guinea pig, vitamin C deficiency and, 1933, 106: 611.

in rat, effects of illuminating gas on, 1934, 109: 99.

manganese as factor in, 1932, 101: 591.

metabolic organ tissue changes and, 1937, 119: 445.

Reproductive cycle in female guinea pig, 1933, 105: 393.

Reproductive functions in rat, sympathectomy and, 1932, 99: 444.

Reproductive system, effect of estrin on, 1931, 96: 677.

effect of extracts of adrenal cortex on, 1934, 107: 480.

of intravenously injected sucrose, 1933, 105: 60.

of inulin and creatinine, and filtration and reabsorption of water, 1937, 119:

of skiodan, diodrast and hippuran, 1936, 115; 548.

of threshold and no-threshold substances, 1937, 119: 740.

of threshold and no-threshold substances, time relations in, 1937, 119: 419.

of urea, 1935, 112: 529.

of urea, 1935, 113: 36.

of urea, water economy in, 1934, 109: 139.

strenuous muscular exercise and, 1937, 119: 642.

Reproductive tract of male rat, response to pituitary hormones, 1931, 99: 197, response of, to follicular hormone, 1932, 99: 349.

Respiration, action of rattlesnake venom on, 1933, 105: 80.

action potentials of central mechanism and, 1937, 119: 370.

and blood pressure, periodic changes in, 1934, 110: 464.

and circulation, chemical regulation of and carotid sinus reflexes, 1932, 101: 91.

and circulation, effect of temperature of medulla on, 1932, 101: 80.

and cooling of floor of fourth ventricle, 1937, 118: 441.

and excitability of peripheral muscles, 1930, 95: 519.

and local cooling of floor of fourth ventricle, 1935, 113: 102.

and muscles, acid-base effects upon, 1931, 98: 60.

and scratch reflex, 1931, 98: 368.

at birth, alteration in regulation of, 1937, 119: 406.

character of, under varying mechanical conditions, 1932, 101: 39.

Chevne-Stokes', mechanism of, 1937, 119: 383,

circulation and, in acute compressed-air illness, 1936, 114: 526.

collateral, 1934, **108**: 581.

15.

cutaneous, 1930, 95: 13.

cutaneous, in man, 1931, 98: 93.

effect of alcohol on, 1932, 101: 57.

effect of glycocyamine on, 1936, 116: 65.

effect of local chemical applications to floor of fourth ventricle on, 1936, 116:

effect of nerve section and stimulation on, 1932, 101: 40.

effect of, on cardiac output, 1933, 104: 358.

effects of ascaris extract on, 1929, 91: 143.

effects of local cooling of surface of brain stem on, 1934, 109: 81.

exercise and, in pre-adolescent boys, 1936, 117: 577.

following chemical administrations, 1932, 101: 41.

forced, respiratory and circulatory responses to, 1930, 91: 390.

human, effective dead space in, 1933, 104: 10.

in birds and mammals, initiation of, 1937, 119: 422.

in dogs heated by diathermy, 1937, 119: 332.

in nephritis, regulation of, with nitrogen retention, 1930, 93: 667.

in nerve, influence of electrolytes on, 1935, 111: 681.

intercostal, nervous control of, 1935, 110: 700.

lowered alveolar oxygen and, 1932, 100: 202.

nervous control of, 1930, 95: 681; 1931, 96: 59.

of animal tissues, 1933, 105: 655.

of fishes in relation to environment, 1932, 101: 56, 84.

of local brain regions, 1936, 116: 16.

of optic nerve of king crab, 1937, 119: 402.

of pancreas, effect of secretin on, 1933, 103: 232.

of phagocytosis, 1933, 103: 235.

oxidation-reduction potentials in regulation of, 1932, 101: 56.

periodic, and high oxygen pressure, 1932, 100: 192.

periodicity in, 1933, 105: 101.

peripheral and central chemical control of, 1932, 101: 103.

pheo-hemin in plant cells catalyzing, 1936, 116: 92.

plethysmographic studies with reference to waves of, 1937, 119: 373.

potentials associated with, and localization in central grey axis stem, 1935, 113: 48. rate of, and respiratory quotient in Chilomonas paramecium, effect of sulfur on, 1936, 116: 107.

reflex acceleration of, through afferent fibers in vagus nerve, 1936, 116: 75. registration of, in frog, 1932, 101: 17.

regulation of, 1930, 93: 528; 1930, 94: 224, 300, 339, 365, 387, 402, 427.

sodium cyanide, methylene blue and, 1932, 100: 227.

stellate ganglia and, 1936, 115: 357.

stellate ganglia in regulation of, 1933, 104: 457, 468.

studies on, with action potential methods, 1933, 105: 37.

tissue, action of thyroxin on, 1933, 105: 518.

tissue, age and, 1936, 114: 255.

tissue, effect of CO on, 1934, 107: 85.

Respiration apparatus, closed circuit artificial, 1933, 105: 74.

Respiration calorimeter, semi-automatic, 1934, 109: 78.

Respiration. See Apnea.

See Asphyxia.

See Breathing.

See Hyperpnea.

See Pulmonary.

Respiratory act, fusillade patterns of inspiratory and expiratory muscles and their mechanical effects on, 1936, 116: 60.

vagal sensory fibers which modify, 1936, 116: 17.

Respiratory activity and venous pressure, 1932, 100: 417.

of fishes, 1930, 93: 417.

under increased air pressure, 1935, 110: 616.

Respiratory adaptation to anoxemia, 1934, 109: 626.

Respiratory alterations from cortical stimulation, 1936, 115: 261.

Respiratory and cardiac rhythms, 1932, 101: 80.

Respiratory and vascular changes during convulsions, 1931, 97: 92.

Respiratory centre, 1929, 91: 94; 1936, 115: 520. carotid sinus reflexes to, 1932, 102: 94, 119.

in cephalic brain-stem, 1930, 93: 663. Respiratory chest volume during air hunger produced by physical exertion, 1936, 116: 66.

Respiratory conditions, relation of, to knee jerk, 1932, 102: 305.

Respiratory contractions, effect of interruption of proprioceptive pathway on form of, 1930, 93: 640.

Respiratory control, rate and depth components of, 1937, 120: 105.

Respiratory exchange and urinary constituents, effect of glucose and fructose on, 1935, 113: 3.

before and after ingestion of sugars, 1931, 97: 509.

effect of hexoses on, 1932, 102: 659.

galactose and, 1932, 102: 635.

of exercise and recovery, effect of sugar ingestion on, 1935, 113: 58.

Respiratory exchanges during work and recovery, 1930, 93: 660; 1931, 97: 534.

Respiratory failure, relation of carotid sinus to, 1934, 107: 213.

Respiratory gases, after-images and changes in, 1935, 112: 620.

effect on hearing of changes in, 1935, 112: 519.

nystagmus and changes of, 1935, 112: 662.

Respiratory impulses, crossed, to phrenic, 1936, 117: 495.

mediated by stellate ganglia, 1932, 101: 27.

Respiratory mechanism, central, 1936, 117: 423.

central, localization of, 1936, 115: 402.

lfur on,

75.

d their

, 1936,

se on,

Respiratory metabolism, adrenal cortical hormone and, 1932, 99: 710.

and acid elimination in pregnancy, 1931, 96: 101.

and blood changes of anesthetized dogs by high frequency current, 1931, 96: 439.

and pulmonary ventilation in tuberculosis, 1932, 101: 73.

during premortal rise in nitrogen excretion, 1932, 101: 27.

effect of adrenal cortical extract on, 1937, 119: 336.

effect of glucose feeding on, 1932, 101: 95.

effect of high frequency current on, 1932, 101: 194.

effect of stimulation of sympathetic trunk on, 1932, 101: 49.

of active and inactive rats, 1933, 106: 670.

of atrophic muscle, 1934, 109: 200.

of diabetes, liver and, 1933, 105: 306.

of infrahuman primates, 1934, 110: 477

of pancreatic diabetes, 1932, 102: 460; 1933, 104: 298.

of stimulated frog muscle, 1936, 115: 371.

Respiratory movements, intrauterine, 1937, 119: 153.

of intercostal muscles, nervous regulation of, 1933, 105: 13.

Respiratory mucosa, reaction of, to skin temperature, 1936, 115: 181.

Respiratory muscles, fusillade patterns of, 1936, 116: 228.

Respiratory quotient as guide to mealtime intervals, 1934, 109: 46.
excess, after strenuous work, 1931, 98: 135.

in relation to eating, 1932, 101: 48.

of depancreatised ducks, 1930, 93: 686.

of exercise in diabetes, 1933, 103: 298.

of muscle of deparcreatized dogs, 1934, 110: 352.

of proteins in diabetes, 1931, 96: 331.

of recovery period after strenuous muscular exercise, 1931, 97: 521.

of renal tissue of Houssay dogs, 1937, 118: 297.

of resting mammalian muscle, 1930, 93: 660.

of resting muscle, 1930, 95: 429.

of the brain, 1932, 101: 446.

of working isolated muscles, 1932, 101: 39.

on high fat diets, 1930, 93: 656.

Respiratory quotient changes after injection of methylene blue, cysteine or cystine, 1935, 113: 51.

Respiratory quotient values, subnormal, induced by controlled feeding, 1937, 120: 458.

Respiratory rate, action of ether on, 1930, 91: 461.

and amplitude, reflex effects of, 1936, 116: 380.

Respiratory rate alterations caused by electrical excitation of cerebral cortex, 1935, 113: 20.

Respiratory reactions upon vertical movements, 1936, 117: 349.

Respiratory reflex, glossopharyngeal, 1935, 112: 684.

Respiratory reflexes, anesthetic level for, 1936, 115: 579.

palatine and pharyngeal, 1936, 116: 505.

proprioceptive, of vagus nerve, 1937, 119: 517.

Respiratory response to physical training, 1929, 91: 103.

Respiratory rhythm in Scyllium canicula, 1930, 93: 670.

Respiratory rhythms, cardiac and, comparison of, 1933, 106: 204.

Respiratory rôle of visceral afferent impulses which travel through stellate ganglia and vagi, 1936, 116: 33.

Respiratory system which maintains heart rate in embryonic fish, 1936, 116: 50.

Respiratory tract and middle ear infections, control of, 1935, 113: 133.

Responses and reflexes, extinction of, 1936, 117: 609.

Rest and work at high altitude, lactic acid in, 1936, 116: 367.

effect of posture and, on cardiac output, 1935, 112: 705.

Reticulocyte stimulating principle in urine, 1935, 113: 135. Reticulocytes in blood of rat, 1934, 108: 66.

Reticulocytic action of pernicious anemia urine extracts, 1936, 116: 158.

Retina, area and intensity-time relationship in, 1935, 113: 299.

dark adaptation of different areas of, 1932, 101: 52.

electrical response of, 1930, 95: 250.

electrograms of optic cortex and, 1936, 117: 338.

human, interaction of adjacent areas in, 1934, 108: 701.

inhibition in, 1931, 98: 664.

of human eye, peripheral and central, summation in, 1930, 93: 651.

peripheral and central, 1930, 95: 211, 229; 1931, 98: 644, 654, 664.

peripheral and central, studies on, 1930, 94: 41.

rods of, sensory adaptation and chemistry of, 1936, 116: 157.

Retinal action potential, stray light in eye and, 1935, 111: 335.

Retinal response in pigeon to lights of various wavelengths, 1935, 113: 81. organization of, 1937, 120: 184.

Retinal stimulation and cortical response, 1935, 110: 666.

effect of, on adjacent areas, 1935, 112: 414.

response of optic cortex to, 1934, 108: 397.

Retinal stimuli and labyrinthine head-nystagmus, 1930, 95: 465.

Retinal tissue, vitamin A potency of, 1931, 97: 611.

Retrolingual membrane in situ, a transilluminated preparation of, 1930, 93: 681.

Rhythm, tonus, in isolated gall bladder, 1935, 112: 461.

Rice disease of pigeons, vitamin B in, 1930, 93: 161.

Rickets, absorption spectrum of hemolyzed blood in, 1931, 97: 243.

constitutional factor in etiology of, 1932, 102: 8.

Rigidity, decerebrate, deafferentation and, 1931, 98: 47.

decerebrate, in newborn rabbits, relation of brain transection to, 1931, 97:

flexor, and priapism in spinal cat, 1932, 102: 75.

flexor, in hindlegs of spinal cat, 1934, 107: 441.

Rigor, cardiac, dietary factors influencing, 1937, 118: 423.

Roentgen-radiation. See X-radiation.

Rubro-spinal tracts, independence of righting reflexes and normal muscle tone from, 1933, 105: 61.

Ruminants, gastric secretion in, 1937, 119: 720.

R-wave potentials in tortoise and frog heart, 1934, 110: 422.

S

Saccharogenic power of human saliva, 1935, 111: 192.

Sacral nerves, periodic micturition after section of, 1936, 115: 685.

Salicyl-amino pyridine and brom-salicylal-amino pyridine, physiological action of, 1937, 119: 367.

Saligenins, three isomeric, and their bromine derivatives, 1934, 109: 68.

Saline injections, large, effects of, 1934, 108: 476.

large, transudates and, 1933, 105: 22.

Saliva and blood serum of children, 1933, 105: 436.

blood and, pulmonary ventilation and pH of, 1936, 116: 174.

buffering power of, obtained under chorda tympani stimulation and with pilocarpine, 1936, 116: 14.

composition of, 1929, 91: 132.

human, ptyalin content of, in old age, 1937, 119: 600.

nervous secretion of, 1936, 116: 56; 1937, 119: 493.

parotid, in dog, nervous influences on, 1931, 97: 668.

resting, chemical composition of, 1936, 117: 529 saccharogenic power of, 1935, 111: 192.

Saliva composition in different phases of secretion, 1931, 97: 450.

Salivary conditioned reflex, 1930, 94: 553. avitaminosis-A and, 1936, 115: 215.

Salivary flow during dehydration, 1931, 97: 107.

Salivary glands, dysfunctioning, in man, 1937, 119: 409.

effect of extirpation of, on water intake, 1932, 102: 336.

motor mechanism of, 1930, 91: 370.

rôle of, in thirst mechanism, 1931, 96: 221.

secretory metabolism of, 1935, 114: 46.

stimulation of, by warm environment, 1931, 97: 107.

Salivary reflex, conditioned, thyroid feeding and, 1933, 103: 68.

Salivary response, reflex, in dehydration, 1932, 100: 559.

Salivary responses, conditioned, hunger as factor determining magnitude of, 1936, 116: 49.

Salivary secretion, action of quinine and amytal on, 1931, 97: 564.

and contained salts, rate of, 1931, 98: 441.

and oxygen tension of inspired air, 1930, 91: 399.

during thirst, 1935, 113: 123.

histamine, 1929, 91: 123.

in avitaminosis-A, 1936, 115: 210.

sympathetic, augmenting effect of chorda tympani on, after atropine, 1934, 109: 70.

Salivation, basal metabolism during conditioned, 1931, 98: 25. conditioned, 1930, 94: 215.

Salt and water metabolism after adrenalectomy, 1935, 111: 305.

Salt appetite, increased, in adrenalectomized rats, 1936, 115: 155.

Salt-deficient diet and development of teeth, 1935, 112: 286.

Salt economy in humid heat, 1937, 118: 285.

Salt exchange, water and, in elasmobranch fishes, 1931, 98: 279, 296.

Salt intake, limited, organ development on, 1936, 116: 516.

Salt treated, adrenalectomized rats, survival of, 1935, 111: 321.

Salts, ingested, distribution and excretion of, 1937, 120: 411.

Saponin hemolysis of erythrocytes, 1929, 91: 1.

Satellitosis and neuronophagia in cat's brain from large doses of bromide, 1931, 97: 549.

SCN-contracture, 1931, 96: 477.

om.

in skeletal muscle, 1931, 96: 203.

Secretagogues, action of, on gastric secretion, 1933, 105: 220.

Secretin, action of, on blood sugar, 1930, 91: 496.

a true cholagogue, 1937, 120: 336.

effect of, on secretion of bile, 1931, 99: 94.

effects of, on blood sugar, 1930, 91: 649.

Mellanby procedure for isolation of, 1929, **91**: 220. physiology of, 1930, **91**: 649; 1931, **97**: 565; 1933, **103**: 232. preparation and isolation of, 1930, **91**: 405. pro-, 1935, **112**: 511.

response of pancreas to, 1934, 110: 198.

Secretin concentrate, preparation of, 1930, 95: 35.

Secretin preparations, diuretic action of, 1931, 97: 276, 286. response of spleen to, 1936, 117: 701.

Secretion, acid, of stomach, influence of pylorus on, 1936, 116: 685.

ecretion, acid, of stomach, influence of pylorus on, 1936, 116: 685 adaptive, of jejunal glands, 1936, 116: 563.

hyper-, effect of, on gastro-duodenal mucosa, 1937, 120: 87. intestinal, humoral control of, 1935, 111: 145.

of gonadotropic complex, oestrone and, 1937, 120: 232.

of oral and pharyngeal mucus, 1936, 115: 497.

pancreatic, and digestive absorption, 1936, **116**: 210. submaxillary gland, after section of chorda, 1937, **120**: 246.

Secretion pressure of aglomerular kidney, 1931, 97: 66.

Secretions, duodenal, and experimental jejunal ulcer, 1936, 117: 79.

Secretory nerves of prostate gland, 1937, 118: 64.

Seminal fluid, human, response of uterine muscle to, 1935, 112: 577.

Seminal tract, chemical relations of fluids in, 1932, 101: 58. chemistry of fluids of, 1933, 103: 574.

Sense cells, single visual, spectral sensitivity of, 1934, 109: 49.

Sense organs, rôle of cortex and, in mating activity, 1937, 120: 544.

Sensitivity, effects of analgesic drugs on, 1935, 113: 100.

of nictitating membrane to adrenine, 1937, 120: 466.

of smooth musculature to epinephrine, 1937, 120: 401.

Sensitization of inhibited structures by denervation, 1937, 120: 179. of striated muscle to changes in pH, 1933, 105: 353.

of sympathetic ganglion by preganglionic denervation, 1936, 116: 408.

Sensori-motor areas of dog's cortex, 1931, 99: 1.

Sera, foreign, and coagulation of dog heparin plasma, 1935, 114: 19.

Serous cavities, lymphatic absorption from, 1937, 119: 776.

Serum and urine pH, pituitary extract and, 1933, 106: 505.

and urine phosphatase after bile duct ligation, 1937, 120: 696.

blood, maltase activity of, 1936, 114: 534.

homologous, in blood volume determination, 1934, 107: 120.

horse, calcium and inorganic phosphorus in, 1936, 115: 90.

in jaundice, calcium in, 1930, 92: 630.

iron in experimental anemia, 1930, 92: 196.

mare, gonad-stimulating principle of, 1932, 102: 227.

of exercised dogs, acid-base changes in, 1931, 96: 529.

pregnant mare's, effects following administration of, 1935, 113: 6.

Serum amylase in relation to pancreatic activity, 1932, 102: 209.

Serum calcium after calcium and parathormone, 1937, 118: 52.

after parathyroidectomy, 1930, 92: 1.

and phosphorus, effect of anterior hypophyseal extract on, 1937, 118: 588. in Eck fistula dogs, 1935, 113: 86.

Serum K and Na after adrenalectomy and nephrectomy, 1937, 120: 83.

Serum phosphatase in cats with total bile stasis, 1935, 113: 25.

influence of pancreas on, 1937, 118: 541.

Serum volume, measurement of, 1936, 117: 474.

Serum. See Blood.

Sex and seasonal differences in blood of birds, 1934, 108: 554.

Sex-drive in rats, 1935, 112: 176.

Sex function, normal, adiposity with, after removal of posterior lobe of hypophysis in dog, 1935, 113: 79.

Sex functions after section of hypophyseal stalk, 1937, 119: 349.

Sex glands, male, physiologic maintenance of, 1934, 107: 508.

Sex hormone in serum of pregnant mares, 1930, 93: 57.

Sex hormones, female, of anterior pituitary, 1931, 97: 291.

in blood serum of mares, 1930, 94: 597.

interaction of, 1932, 102: 241.

of hypophysis, 1933, 104: 710.

Sex maturity in rat, effect of hyperthyroidism on, 1933, 104: 247.

Sexual activity, adaptation of, to environmental stimulation, 1933, 105: 76. and environmental stimulation, 1934, 107: 628.

growth and, in relation to adrenal, 1937, 118: 677. Sexual maturity in birds, age of, 1931, 97: 581.

precocious, adrenal extract and, 1931, 97: 581.

Sexual organs, growth of rat after excision of, 1930, 93: 307.

Sherrington phenomenon, 1933, 105: 525, 535.

Shivering and thermal muscular tone, motor mechanism of, 1937, 119: 284. central control of, 1930, 93: 227.

Shock, adrenal secretion in, 1933, 104: 628.

anaphylactic, active substance in, 1932, 102: 512, 520.

anaphylactic, effect of anaphylatoxin in, 1932, 101: 29.

anaphylactic, output of epinephrin during, 1933, 106: 414.

anaphylactic, output of epinephrin from adrenal glands during, 1933, 105: 21.

blood volume in, 1930, 94: 579.

crotalin, similarity of, to anaphylactic shock, 1930, 92: 698.

electric, recovery of heart in, 1929, 91: 305.

electric, ventricular fibrillation caused by, 1930, 93: 197.

experimental, potassium changes in, 1937, 119: 427.

histamine, adrenal medulla and resistance to, 1937, 118: 57.

peptone, antithrombin in, 1936, 116: 535.

secondary, adrenal insufficiency and, 1935, 112: 581.

traumatic, mechanical interference with circulation a factor in, 1930, 94: 529.

Shock disease of wild snowshoe rabbits, 1937, 119: 319.

Shocks, subthreshold induction, 1935, 113: 52.

Sinuses, accessory, drainage of nasal mucus in, 1932, 100: 664.

Skeletal changes due to low inorganic salt diet, 1936, 115: 556.

Skeletal muscle, denervated, changes in, 1937, 118: 580.

denervated mammalian, 1937, 120: 781.

latencies of response in, 1936, 115: 441.

Skeletal muscle movement, electrical measurement of imagination of, 1930, 91: 567.

Skeletal-solids in animals, study of, and changes in inorganic constituents by increase in age, 1931, 97: 551.

Skeletal structures, study of, and effect of age on inorganic composition, 1931, 97: 550.

Skin, air movement as stimulus to, 1936, 114: 269.

· electrical response potentials from, 1936, 117: 189.

frog's, potential differences across, as index to structure, 1935, 113: 128

human, penetration of light through, 1931, 97: 86.

insensible water loss through, 1932, 102: 60.

of frog, electric potential of, 1932, 101: 10.

of frog, water exchange through, 1931, 96: 569, 587.

oxygen absorption through, 1934, 109: 72.

polarization-capacity of, psychogalvanic reflex and, 1930, 94: 77.

retention of sugar by, 1930, 93: 677.

ultra-violet transparency of, 1929, 91: 58.

Skin absorption of fats, oils and chemicals, 1937, 119: 365.

Skin permeability to carbon dioxide and oxygen, 1931, 98: 93.

Skin reflex, galvanic, after transection of cord, 1930, 93: 468.

galvanic, insensible perspiration and, 1935, 111: 55.

Skin temperature and body radiation measurement, 1934, 109: 48.

effect of radiant energy on, 1937, 118: 372.

measurement of, 1933, 105: 15.

reaction of respiratory mucosa to, 1936, 115: 181.

spinal roots and tracts in regulation of, 1934, 109: 116.

Skin temperatures and dissipation of heat from body, 1937, 119: 403.
in limbs deprived of sensory and sympathetic nerve supply, 1934, 109: 53.

Skiodan, diodrast and hippuran, renal excretion of, 1936, 115: 548.

Sleep and muscular relaxation, rectal temperature in, 1933, 104: 340.

and rest, blood calcium and protein changes in, 1936, 116: 531.

brain potentials and depth of, 1937, 119: 273.

brain potentials during, 1937, 119: 692.

changes of auditory sensibility in, 1937, 119: 377.

continuous curve of depth of, 1936, 116: 92.

effect of alcohol on temperature and motility during, 1933, 105: 74.

effect of caffein on body temperature and motility during, 1933, 105: 24.

effect of, on conditioned salivation, 1930, 94: 215.

effect of, on human basal metabolism, 1934, 108: 377.

hypnotoxin theory of, 1937, 119: 342.

motility and body temperature during, 1933, 105: 574.

physiological variations during, 1930, 95: 274.

physiology of, 1932, 100: 474; 1933, 104: 449; 1933, 106: 478; 1934, 107: 589.

Sleeplessness, prolonged, effects of, 1934, 107: 589.

Sodium and chloride depletion after adrenalectomy, 1936, 116: 430.

Sodium bicarbonate and respiration, 1930, 94: 387.

Sodium chloride in adrenalectomized dogs, 1934, 108: 159.

Sodium chloride balance in adrenalectomized opossum, 1937, 118: 21.

Sodium cyanide and respiration, 1930, 94: 339.

Sodium deprivation, effects of, 1937, 119: 651.

Sodium fluoride, influence of, on basal metabolism, 1935, 113: 441.

Sodium loss, experimental, and adrenal insufficiency, 1934, 108: 662.

Sodium-salt solutions and chemical stimulation, 1934, 109: 550, 561.

Somatic growth and maturation of erythrocytes, 1937, 118: 309.

Somatic nerve fibers of slow conduction, 1930, 92: 43.

Sound, intense audible, bactericidal action of, 1933, 105: 18.

Sound conduction, normal and pathological, 1937, 119: 353.

Sound waves, high frequency, effect of, on heart, 1929, 91: 284.

Spayed mice, pseudo-pregnancy vaginal reaction in, 1930, 95: 422.

Spayed rats, oestrual and, changes in tissue metabolism in, 1936, 115: 121.

Spaying, effects of oestrus and, on pituitary metabolism, 1936, 115: 130.

Speed, muscle tension and, 1931, 97: 1.

Spermatozoa, transport of, in the dog, 1933, 105: 287.

Sphenopalatine ganglion, physiology of, 1930, 93: 398.

Sphincter, ileo-caecal, in man, nervous control of, 1934, 108: 449. ileo-cecal, of dog, 1931, 96: 494.

Sphincter of Oddi, function of, 1931, 99: 237.

in the dog, 1936, 116: 14.

Sphincter tone of iris in rat, 1931, 98: 276.

Spinal animals, chronic, reaction of, to hemorrhage, 1935, 114: 30.

Spinal block, changes in reflex activity induced by, 1934, 110: 362.

Spinal cat, acutely, crossed reflexes in, 1936, 115: 78.

cord potentials in, 1937, 118: 411.

Spinal center, excitation and inhibition in, 1930, 95: 142.

Spinal cord, block of, produced by cold, 1931, 98: 399.

galvanic skin reflex after transection of, 1930, 93: 468.

human, interneuronal connections of, 1933, 106: 53.

of cat, fiber action potentials in, 1937, 119: 567.

of cat, spike action potentials from fiber tracts in, 1936, 116: 80.

response of, to two afferent volleys, 1934, 108: 307.

response of, to two stimuli, 1933, 105: 57.

source of impulses underlying effects of post-brachial transection of, on fore limb reflexes, 1934, 109: 91.

Spinal cord origin of fibers causing vasodilatation in cat's submaxillary gland, 1933, 105: 89.

Spinal cord potentials, 1933, 103: 303; 1934, 108: 295.

in acute and chronic spinal cats, 1936, 116: 83.

Spinal cord transection, post-brachial, effect of, on reflexes of forelimbs, 1933, 105: 86.

Spinal fluid, human, 1930, 93: 670.

measurements on pressure of, 1931, 97: 502.

Spinal integration of standing, 1930, 92: 716.

Spinal irradiation and cutaneous sensations, 1931, 97: 491; 1933, 104: 537.

Spinal path for responses to cerebellar stimulation, 1936, 117: 267.

Spinal reflexes, non-segmental, 1936, 114: 457.

Spinal shock, reflex thresholds of cat during, 1935, 111: 263.

Spinal standing of cat, reflexes in, 1932, 102: 183.

Spinal transection and menstruation, 1933, 105: 473.

crossed extension reflex after, 1935, 112: 152.

Spinal vasomotor reflexes and variations in blood pressure, 1936, 117: 619.

Spirogram, human, 1937, 119: 396.

Splanchnic nerve section and gastric motility, 1937, 120: 356.

Splanchnic regulation of glomerular blood flow, 1930, 91: 436.

Splanchnic stimulation, blood pressure response to, 1931, 99: 160.

Splanchnomegaly associated with action of prolactin, 1937, 119: 603.

Spleen and blood in nutritional anemia of rat, 1935, 111: 578.

chemical studies on, 1930, 91: 377.

effect of prolonged anoxemia on heart and, 1936, 116: 290.

in fowls, reservoir function of, 1932, 100: 99.

reaction of, to specific gravity of blood, 1932, 101: 79.

relation of, to parathyroid tetany, 1930, 92: 648.

relations of, to life of red blood cells, 1937, 118: 757.

response of, to acoustic stimuli, 1930, 91: 505.

response of, to secretin preparations, 1936, 117: 701.

rôle of, as reducing agent, 1930, 91: 377.

rôle of, in iron metabolism, 1932, 101: 102.

Spleen volume, recovery of, after exercise, 1930, 92: 240.

response of, to asphyxia, 1930, 92: 249.

Spleen volume changes in intact, unanesthetized dog, 1936, 116: 118.

Splenectomy, decreased red cell fragility after, 1937, 120: 150.

Splenic iron, utilization of, 1931, 98: 626.

Staining of a dye, basophilic or acidophilic, determined by in-vitro test, 1930, 93: 634.

Standing, spinal integration of, 1930, 92: 716.

Startle pattern, abnormalities of, 1937, 119: 357.

in psychopathological patients, 1937, 119: 358.

Starvation, partial, and muscular fatigue, blood changes produced by, 1933, 104:

Stellate ganglia and breathing, 1936, 115: 357.

in regulation of respiration, 1933, 104: 457, 468.

Sterility in rabbits, oestrone and, 1936, 115: 219.

Sterol in feces, influence of bile on, 1936, 116: 317.

Stimulation, continued, effect of, on conditioned salivation, 1930, 94: 215.

of tissues beneath integument in absence of conductors penetrating skin, 1936, 116: 98.

repetitive, of crayfish claw, 1936, 116: 282.

Stimulator, an automatic, 1935, 113: 69. photocell multiform, 1937, 119: 340.

Stomach, autoneutralization of acid in, 1937, 119: 360.

CO2 content of mucosa of, 1932, 101: 58.

effect of anoxemia on digestive movements of, 1932, 102: 629.

effect of anoxemia on evacuation of, 1932, 101: 26.

effect of calcium and magnesium ions on hunger contractions of, 1929, 91: 268.

effect of hunger on emptying time of, 1929, 91: 206.

empty, bullfrog, work done by, 1933, 105: 78.

empty, of sea hare, movements and inhibition of, 1936, 116: 119.

emptying of, 1932, 102: 276.

emptying time of, after acute hemorrhage, 1936, 117: 226.

environmental temperature and emptying time of, 1937, 118: 272.

factors influencing evacuation of, 1932, 101: 96.

fasting, motor and secretory functions of, 1935, 112: 162.

formation of HCl and NaCl in, 1932, 101: 8.

human, effect of atropine and pilocarpine on emptying time of, 1936, 115: 104.

influence of pylorus on acid secretion of, 1936, 116: 685.

motility of, and hyperthyroidism, 1929, 91: 291.

normal and diseased, mucus secretion of, 1934, 109: 80.

secretion in, influenced by duodenum, 1932, 101: 25.

secretory activities of, 1934, 107: 94.

size of meal and emptying time of, 1937, 119: 480.

vasomotor effect of acetylcholine on, 1936, 116: 330.

See Gastric.

Stomach contents of suckling rats, 1933, 105: 71.

Stomach motility, action of insulin on, 1933, 104: 90.

influence of sciatic and vagus on, 1932, 101:82.

Stomach secretion, effect of liver extract on, 1932, 101: 59.

Stomach washings from various clinical conditions, phytopharmacological examination of, 1931, 97: 542.

Stretch reflex, cessation of afferent impulses in, 1934, 109: 123.

Strophanthidin, emetic, respiratory and other actions of, in cat, 1936, 116: 37.

Strychnine and respiration, ammonium chloride, methylene blue and, 1930, 94: 427.

and the chronaxie, 1936, 117: 638.

cortical action potentials after, 1933, 103: 203.

Strychnine poisoning, trauma in, 1935, 113: 34.

Subarachnoid space, absorption from, 1934, 108: 458.

Subareolar node, 1937, 119: 345.

93:

Subcutaneous absorption in adrenalectomized rat, 1934, 110: 153.

Submaxillary gland, liberation of adrenergic and cholinergic substances in, 1934, 109: 375.

metabolism of: 1930, 93: 568.

Submersion in water of various temperatures, effect of, 1930, 93: 694.

Sucrose, effect of, on reducing power of cerebrospinal fluid, 1935, 112: 97.

effects of adding minerals and, to diet, 1934, 108: 215.

glucose and, relative rates of absorption of, 1936, 117: 257.

hypertonic, and cerebrospinal fluid pressure, 1935, 112: 82.

intravenous, distribution and excretion of, 1937, 120: 203.

intravenous injection of, in man, 1932, 101: 63.

intravenously injected, distribution and recovery of, 1934, 109: 62.

Sugar, blood, effect of lactogenic hormone on, 1935, 12: 714.

in blood following autonomic drugs, 1936, 114; 551.

in lymph, 1935, 113: 548.

insulin and, in isolated heart, 1930, 92: 144.

metabolism of chloride and, hypothalamus and, 1935, 112: 504.

of blood, experimental hypothalamic lesions and, 1936, 114: 555.

of blood, level of, after physostigmine and atropine, 1937, 118: 300.

of blood of adrenalectomized dog, 1936, 117: 13.

Sugar absorption, effect of pH on, 1934, 109: 638.

Sugar distribution between corpuscles and plasma in hyper- and hypoglycemic conditions, 1935, 113: 25.

Sugar exchange of muscle and blood, epinephrin and, 1934, 108: 107.

Sugar solutions, effect of, on resistance of hypotonic hemolytic systems, 1931, 96: 484.

Sugar tolerance, effect of coelic ganglionectomy on, 1932, 102: 614.

in dogs, vagus nerves and, 1934, 108: 210.

Sugar utilization, 1930, 93: 696.

by muscles, epinephrine and, 1937, 118: 328.

effect of epinephrine on, in animals under amytal anesthesia, 1930, 95: 285.

in eviscerated rabbits, 1935, 111: 289.

Sugars, ingested, utilization of, after exercise, 1937, 120: 579.

measurement of glomerular filtrate by, 1932, 100: 301.

various, clearances of creatinine and of, 1933, 106: 16.

Sulfur, function of, in Chilomonas paramecium, 1935, 113: 96.

Sulfur compounds, certain, and blood coagulation, 1936, 117: 92.

Sulphide and pulmonary ventilation, 1933, 105: 337.

Summation, temporal, in peripheral nerve fibers, 1936, 117: 355.

Sunshine, antirachitic efficiency of, 1932, 102: 422.

Superfetation in rat, 1934, 108: 322.

Suprarenal, relation of, to blood sugar and amino acids, 1936, 117: 542.

See Adrenal.

Suprarenal cortex, attempted autotransplantation of, 1931, 97: 392.

Suprarenal cortical hormone and nitrogen metabolism, 1935, 113: 335.

Suprarenal gland, irradiation of, 1930, 93: 684.

Suprarenal insufficiency, 1930, 94:579; 1932, 101:282, 662.

studies on, 1932, **99**: 285. Suprarenalectomized rats, body temperature in, 1933, **105**: 273.

Suprarenalectomy, oestrual cycle of rat after, 1932, 100: 180.

Surface area in a monkey, 1933, 106: 91.

Sweat, calcium as a normal constituent of, 1931, 97: 509.

excretion of phosphorus and sulphur in, 1933, 106: 488.

phosphorus and sulphur in, 1933, 105: 94. secretion of magnesium in, 1932, 101: 17.

Sweat excretion and atmospheric humidities, 1937, 120: 288.

Sweating, blood changes associated with, 1931, 97: 426; 1932, 100: 328; 1933, 104: 441.

profuse, blood changes following, 1930, 93: 692.

Sweating response to heat, 1931, 97: 538.

Sweating. See Anhidrosis.

Sympathetic, cervical, relation of, to energy metabolism, 1932, 102: 249. para-, fibers in vagus, 1932, 101: 274.

Sympathetic activity, blood calcium in relation to, 1930, 93: 111.

Sympathetic autonomic discharges in mid-brain preparations, 1932, 100: 576.

Sympathetic center, hypothalamus as, 1936, 115: 245.

Sympathetic control of muscle tone in birds, 1931, 98: 547.

Sympathetic denervation of genital organs, impotence of male rodent after, 1931, 96: 321.

of mammalian tissues, 1932, 100: 295.

Sympathetic fibers, cervical, fatigue phenomena in, 1932, 102: 87.

Sympathetic ganglion, functional analysis of, 1930, 93: 384.

impulse transmission through, 1937, 119: 221.

synaptic transmission in, 1935, 113: 17.

transmission of impulses through, 1937, 119: 285.

Sympathetic hyperactivity, effect of, on blood volume, 1933, 103: 185.

Sympathetic impulses, interaction of adrenine and, 1935, 112: 690.

Sympathetic innervation, duplication of, 1936, 114: 443.

Sympathetic nerve centers, cardiac, activity of, 1936, 117: 237.

Sympathetic nerve supply to the eye, 1932, 100: 519.

Sympathetic nervous system, reflex activity in, 1934, 109: 593.

Sympathetic stimulation, effect of, on intra-auricular block, 1930, 91: 696.

effect of, on paralytic submaxillary gland, 1934, 109: 36.

Sympathetic stimuli, response of colon to, 1934, 109: 257.

Sympathetic system, reflex activation of, 1933, 106: 251.

Sympathetics, influence of, on muscle glycogen, 1931, 97: 57.

Sympathectomized animals, blood-pressure reflexes in, 1936, 115: 711.

experimental fever in, 1935, 111: 539.

metabolism after thyroxin in, 1931, 97: 315.

parathyroid extract in, 1930, 95: 614.

response of, to insulin, 1931, 98: 467.

vasodilators in, 1934, 108: 599.

Sympathectomized cats, vasomotor reflexes in, 1931, 98: 454.

Sympathectomy, abdominal, and growth of rat, 1930, 95: 601.

a belated effect of, on lactation, 1931, 97: 319.

and hormone influence, 1932, 100: 533.

and pseudopregnancy, 1933, 103: 97.

and reproductive functions in rat, 1932, 99: 444.
and vagotomy, insulin and heart rate after, 1931, 96: 311.
and vasomotor carotid sinus reflexes, 1937, 120: 195.
and vasomotor carotid sinus reflexes of cat, 1935, 113: 130.
basal metabolism in rats after, 1933, 103: 637.
effect of, on local blood flow, 1935, 113: 384.
effect on blood flow, 1932, 101: 213.
leucocyte variations after, 1931, 98: 394.
lumbar, femoral blood flow after, 1933, 103: 592.
progressive, and blood pressure, 1931, 97: 592.
regional, and muscle glycogen, 1931, 96: 308.
sensitization of blood vessels in man by, 1934, 107: 529.

Sympathico-adrenal system, regeneration of fibres of, 1930, 93: 629.

Sympathin and activity of endocrine organs, 1933, 104: 557.

and adrenine, comparative study of, 1935, 112: 268.

and adrenine, effects of, on iris, 1935, 113: 251.

and sympathomimetic hormone, 1932, 102: 332.

circulating, reflex liberation of, 1935, 113: 555.

effects of, on nictitating membrane, 1932, 99: 398.

in liver, physiological production of, 1934, 110: 247.

liberation of adrenalin and, induced by stimulation of hypothalamus, 1937, 119: 615.

physiological liberation of, 1936, 117: 55. production of, 1934, 109: 209.

quantitation of, in terms of adrenalin, 1931, 97: 365.

Sympathin stores, exhaustibility of, 1935, 113: 265. Synaptic junctions, single, 1935, 113: 108. Synergism and antagonism of drugs, 1932, 101: 659 Synovial fluid mucin, 1935, 113: 112.

T

Tachycardia of experimental hyperthyroidism, 1931, 98: 357.
thyroxine, 1931, 98: 338.
Tannic acid, properties of the system insulin-, 1936, 116: 239.

Taste buds, regeneration of, 1936, 116: 225.

Teeth, development of, deficient saline diet and, 1935, 112: 286. development of, magnesium deficiency and, 1935, 112: 256. method for determining rate of eruption of, 1931, 97: 535. relation of parathyroids to effect of fluorine on, 1933, 103: 480. See Dental.

Tegmentum, stimulation of, and pupillary dilatation, 1931, 98: 687.
Temperature and cardiovascular response to posture, 1932, 100: 383.

and chronaxie of nerve, 1930, 95: 139.

and electrical resistance of nerve, 1935, 114: 85.

and strength of stimuli, effect of, on contractility in mimosa, 1934, 109: 36.

body, and environmental factors, 1930, 93: 673.

body, and panting in cats, 1937, 119: 352.

body, influence of partial pressure of oxygen on, 1936. 116: 327.

body, in suprarenalectomized rats, 1933, 105: 273.

body, lethal reduction of, 1934, 109: 447.

body, motility and, during sleep, 1933, 105: 574.

body, reaction time and, 1935, 113: 82.

body, relation of cortin to maintenance of, 1931, 98: 674.

body, vaginal smears, and basal metabolism, 1937, 119: 635.

effect of, on medullated nerve, 1936, 115: 564.

effect of, on oxygen exchange and circulation, 1937, 119: 93.

effect of, on peripheral blood flow, 1935, 113: 384.

effect of, on volume flow of blood in sympathectomized limb, 1937, 120: 475.

effects of, on homeostasis, 1933, 104: 172.

environmental, and blood sugar of rat, 1932, 99: 555.

environmental, and emptying time of stomach, 1937, 118: 272.

environmental, animal adaptation to, 1933, 103: 606.

environmental, circulatory response to, 1935, 113: 181.

environmental, reflex responses to, 1934, 109: 4.

influence of, on recovery heat production of mammalian muscle, 1935, 113: 26. intragastric, variations of, 1933, 105: 665.

low, effect of pressure on muscle at, 1930, 93: 90, 97.

nature of influence of, on osmotic properties of erythrocyte, 1936, 116: 84.

nerve activity and, 1931, 97: 254.

of body in high frequency electrostatic field, 1932, 101: 75.

of extremities and heat-dissipating mechanism, 1933, 106: 589.

of extremities, effects of general anesthesia and sympathetic ganglionectomy on, 1933, 105: 87.

of peripheral blood, reflex control of, 1934, 107: 55.

of tissues, relation of changes in blood-flow to, 1929, 91: 115.

rectal, in sleep and muscular relaxation, 1933, 104: 340.

skin, effect of radiant energy on, 1937, 118: 372.

skin, reaction of respiratory mucosa to, 1936, 115: 181.

susceptibility to, of vagus and sympathetic endings in heart, 1933, 103: 392.

Temperature changes, cardiovascular reactions to, 1930, 95: 263.

in extremities in relation to anesthesia and lumbar sympathetic ganglionectomy, 1931, 97: 558.

measurement of vasomotor reactions to, by a path calorimeter, 1936, 116: 21. produced by food and fasting, 1935, 113: 62.

Temperature coefficients of several processes in muscle contraction, 1931, 97: 562.

Temperature conditions in bone marrow, 1936, 115: 395.

Temperature control in infant rats, 1937, 119: 322.

Temperature cycle, diurnal, establishment of, 1937, 119: 48.

Temperature elevation within physiological range, effect of, on outlying bone marrow, 1936, 116: 83.

Temperature factor in brooding metabolism, 1933, 105: 428.

Temperature gradient in man, superficial, 1936, 114: 642.

Temperature regulation, oxygen deficiency, carbon dioxide and, 1937, 120: 190.

relation of forebrain to, 1934, 109: 515. rôle of anterior hypothalamus in, 1936, 117: 562.

vasomotor, physical factors in, 1937, 120: 133.

Temperature sensations, effect of pain irradiation on, 1933, 104: 537. mechanism of, 1930, 94: 505.

Temperature studies, thermoelectric, in visceral organs, 1931, 97: 544.

Temperature. See Poikilothermic.

See Shivering.

Temperatures, depth, in artificial fever and cooled air chambers with special reference to cooling effect of circulating blood, 1936, 116: 136.

depth, in man, 1936, 117: 708.

environmental, body reactions to, 1937, 120: 1.

low, nutritional anemia and resistance to, 1937, 118: 549. normal and febrile, tissue metabolism at, 1934, 109: 502.

Temporal summation in peripheral nerve fibers, 1936, 117: 355.

Tendon and cartilage, chloride and base contents of, 1936, 115: 476.

Tendon reflexes, central and peripheral latencies in, 1931, 99: 167.

Tension and load in response of nictitating membrane, 1934, 107: 717. initial, and activity of uterine muscle, 1935, 112: 320.

Testes, combs and, effect of confinement on growth of, 1932, 102: 271.

Testicular degeneration due to diet, 1932, 99: 477.

Testicular descent produced by male hormone substance, 1937, 119: 325.

Testis, adult dove, effects of prolactin and follicle-stimulating hormone on, 1935, 113: 84.

Testis hormone, effect of, on oestrous cycle in rat, 1931, 96: 289. in vitamine B deficiency, 1931, 96: 278.

Tetanus, enhancement of muscle contraction after, 1937, 119: 463.

in muscle fiber and grading influence of stimulation frequency, 1930, 93: 681.

Tetany, effects of theelin and theelol in, 1933, 105: 172.
of oestrus after parathyroidectomy, 1936, 117: 405.
parathyroid, contributory factors in, 1931, 98: 194.

parathyroid, effect of thyroid hormone in, 1931, 96: 45.

parathyroid, in rat, influence of dietary salts on, 1936, 116: 119.

parathyroid, relation of spleen to, 1930, 92: 648.

parathyroid, rôle of high temperature and panting in, 1930, 93: 638.

Thalamic, cerebral and cerebellar potentials, 1937, 118: 569.

Thebesian vessels in nourishment of myocardium, 1933, 106: 183.

Theelin, galactin and, in mammary gland development, 1935, 112: 673. of urine and placenta of chimpanzee, 1935, 110: 593. stimulation of hypophysis metabolism by, 1937, 120: 154.

Thermal inactivation of medullated nerve, 1936, 115: 564.

Thermal shortening of nerve, 1935, 111: 159.

Thermal. See Temperature.

Thermic effect of death and hemolysis, 1930, 95: 473.

Thermostromuhr, direct current, 1937, 119: 263.

experimental analysis of, for small flows, 1937, 119: 333. operating on storage battery current, 1936, 116: 137.

Thiomorpholine proponal derivatives, action of, 1935, 113: 92.

Thirst, influence of atropin and pilocarpin on, 1931, 98: 35. physiological mechanism of, 1932, 101: 44.

salivary flow and plasma volume, 1933, 105: 39.

Thirst mechanism, rôle of salivary glands in, 1931, 96: 221.

Thoracic, intra-, and arterial pressure during respiration, coughing and straining,

simultaneous changes in, 1936, 116: 69.

Thoracic movements, relation between pulmonary and, 1932, 102: 167.

Thrombin action, second phase of, 1934, 107: 693.

Thromboplastin, heparin and its relation to, 1936, 115: 317. properties of, 1936, 114: 282.

Thymus, adrenals and thyroid in response of organism to certain drugs, 1936, 116: 141.

and bursa, function of, in pigeons, 1931, 97: 343.

and pineal glands, rôle of, in growth and development, 1936, 116: 132, 133.

Thymus extract, biological effects of, 1934, 109; 90.

Thymus removal, effects of, in chickens, 1937, 119: 374.

Thyreotropic hormone plus iodine, effect of, on thyroid function, 1937, 120: 597. serum inhibitory to, 1934, 109: 2.

Thyroglobulin, alimentary absorption of, 1933, 103: 570.

digestibility of, 1931, 98: 86.

effect of antithyroglobulin on action of, 1930, 93: 175.

physiological activity of iodine in, 1932, 101: 583.

versus thyroxin, 1930, 93: 170.

Thyroglobulin content of thyroid gland, 1933, 105: 556.

Thyroid and immunity, 1937, 120: 121.

and iodine, effect of, on liver glycogen, 1933, 105: 103.

hyper-, excretion of iodine in, 1932, 101: 4.

influence of, on gastric acidity, 1930, 95: 626.

relation of adrenal and, to muscle metabolism, 1933, 105: 110.

relation of, to gonad-stimulating hormones, 1934, 108: 498.

relation of, to pituitary diuresis, 1933, 105: 559.

rôle of, in calorigenic action of vitamin D, 1936, 116: 126; 1936, 117: 1.

Thyroid activity, hormonal control of, 1934, 107: 677.

Thyroid administration, effects of, on motor conditioned reflexes, 1934, 109: 64.

Thyroid-adrenal interrelationship, metabolic aspects of, 1936, 115: 415.

Thyroid deficiency of mother and its effect on thymus of new-born, 1937, 119: 286.

Thyroid disturbances, blood cholesterol in, 1933, 103: 1.

Thyroid feeding and ability of dogs to discriminate, 1936, 115: 162.

and conditioned salivary reflex, 1933, 103: 68.

and gastro-intestinal motility, 1932, 101: 598, 605.

and tissue respiration, 1933, 103: 225.

effect of, on blood flow, 1933, 104: 434.

heart rate of dogs after, 1931, 99: 261.

Thyroid function, calcium and iodine balance as related to, 1936, 116: 123. effect of thyreotropic hormone plus iodine on, 1937, 120: 597.

Thyroid gland, activity of, 1934, 109: 5.

in rats, stimulation of, by cold, 1936, 116: 129.

iodine intake and thyreoglobulin content of, 1934, 107: 513.

massage of, and rate of denervated heart, 1930, 95: 427.

of rat, effect of light and darkness on, 1935, 113: 659.

plethysmographic study of, 1930, 94: 125.

thyroglobulin content of, 1933, 105: 556.

Thyroid glands with low iodine content, physiological action of acid extract of, 1930, 93: 630.

Thyroid hormone and mechanism of gonad-stimulation, 1937, 120: 486.

effect of, in parathyroid tetany, 1931, 96: 45.

fate of, in experimental hyperthyroidism, 1932, 101: 75.

feather germ test for, 1933, 105: 3.

Thyroid hyperplasia without change in respiratory metabolism after thyreotropic hormone treatment, 1937, 119: 260.

Thyroid implants and augmentation of ovarian weight, 1937, 118: 316.

Thyroid preparations, feather germ as indicator for, 1931, 98: 463.

Thyroid tissue in vitro, effect of pituitary hormone on oxygen consumption of, 1937, 119: 67.

Thyroid. See Hyperthyroid.

Thyroidectomized tadpoles, effect of adrenotropic extract on, 1937, 118: 452.

Thyriodectomy, amniotin and basal metabolism after, 1937, 120: 671.

and experimental diabetes insipidus, 1935, 112: 250.

and response of denervated heart to adrenine, 1935, 110: 620.

effect of thyroxine before and after, 1931, 97: 506.

Thyroidism, hyper-, tachycardia in, 1931, 98: 357.

Thyroparathyroidectomized dogs, blood chemistry of, 1933, 105: 643. bone formation in, 1932, 100: 262.

Thyroparathyroidectomy and calorigenic action of anterior pituitary extracts, 1935, 110: 584.

and thyroid feeding, effects of, on intake of vitamin B, 1933, 105: 95.

preoperative dietary management of albino rats for, 1937, 119: 382.

Thyrotropic and gonadotropic substances in pituitary, 1935, 110: 692.

Thyrotropic effect of pituitaries from cretin rats, 1936, 117: 518. Thyroxin, action of, on tissue respiration, 1933, 105: 518.

and metabolism of excised frog heart, 1934, 110: 187.

and metabolism of excised Limulus heart, 1936, 114: 618.

and response of denervated heart to adrenine, 1935, 110: 620.

and tissue metabolism, 1935, 111: 107.

antagonism by certain substances to differentiation factor in, 1934, 109: 45.

calorigenic action of, 1933, 105: 100.

diiodothyronine and, in muscular exercise, 1934, 110: 410.

effect of, on heart muscle, 1934, 109: 312.

effect of, on sodium cholate in blood and bile, 1937, 120: 75.

in sympathectomized animals, metabolism after, 1931, 97: 315.

intravenous, metabolic effects of, 1933, 103: 279.

iodine ingestion and reaction to, 1930, 92: 568.

response of explanted cardiac muscle to, 1932, 100: 162.

thyroglobulin versus, 1930, 93: 170.

Thyroxin content of thyroglobulin, 1933, 105: 58.

Thyroxine injection and toxicity of bile salts, 1934, 108: 613.

phospholipid of tissues after, 1935, 111: 138.

Thyroxine tachycardia, 1931, 98: 338.

Tissue, elastic, reversible heat rigor of, 1933, 106: 125.

human, high frequency resistance of, 1932, 102: 56.

normal and burned, absorption from, 1935, 113: 95.

Tissue ash, catalytic activity of, 1932, 101: 82.

Tissue cultures of adrenal glands, epinephrine in, 1935, 113: 529.

Tissue extracts and blood coagulation, 1937, 118: 633.

and blood sera in coagulation, 1931, 97: 233.

aqueous, properties of, 1936, 114: 282.

foreign, effect of, on coagulation, 1935, 114: 1.

Tissue fibrinogen clotting, 1931, 96: 509.

Tissue fluid, relation of lymph to, 1931, 97: 32.

Tissue gas studies in respiratory and circulatory disease, 1936, 116: 140.

Tissue growth, diet and, 1931, 97: 210.

Tissue metabolism at normal and febrile temperatures, 1934, 109: 502.

in oestrual and spayed rats, 1936, 115: 121.

Tissue O2 and CO2 tension after prolonged hyperventilation, 1937, 119: 410.

Tissue pressure, relations of, to venous pressure, capillary filtration, etc., 1937, 119: 419.

Ure

Ur

U

U

U

Tissue respiration, action of thyroxin on, 1933, 105: 518.

age and, 1936, 114: 255.

effect of CO on, 1934, 107: 85.

thyroid feeding and, 1933, 103: 225.

Tissue spaces, absorption of protein from, 1931, 98: 66.

Tissue state, altered, in ventricular fibrillation, 1935, 112: 301.

Tissues, animal, respiration of, 1933, 105: 655.

blood and, transfer of bicarbonate between, 1932, 100: 122.

composition of, under influence of superficial burn, 1930, 95: 339.

diffusion of CO2 through, 1932, 101: 104.

dog, effect of bile salts on oxygen consumption of, 1936, 115: 82.

frog, diffusion of water and of chloride through, 1930, 93: 628.

human, O2 and CO2 tensions in, 1936, 115: 38.

living, electrical properties of, 1935, 113: 85.

of rat, changes of phosphorus fractions of, with age, 1935, 113: 128.

rôle of, in acid-base equilibrium of blood, 1929, 91: 150.

Toad poisons found in different species, 1932, 101: 20.

Tobacco smoking, physiological effects of, 1934, 109: 118.

Tone in mammalian ventricle, 1937, 118: 26.

Tongue, fibrillation of, after hypoglossotomy, 1930, 91: 654.

Tonic activities of decerebrate animals, 1930, 92: 625.

Tonus, cardiac, effect of vago-sympathetic nerves on, 1930, 95: 56.

motor coördination and, in deafferented limbs, 1936, 115: 461.

postural, innervation of single motor neurones and, 1929, 91: 345.

skeletal muscle, effect of atropin on, 1930, 93: 379.

vascular, after sympathectomy, 1931, 98: 394. Tonus rhythm in isolated gall bladder, 1935, 112: 461.

Toda in the in isolated gair bladder, 1990, 112. 401.

Tooth calcification changes in rat after adrenalectomy, 1936, 115: 334.
Tooth eruption in thyroparathyroidectomized and unoperated albino rats, influence of an inorganic salt mixture on, 1936, 116: 53.

Toxaemia of pregnancy, reproductive hormones and, 1934, 107: 128.

Toxicity of two vital dyes, 1935, 113: 50.

Toxin, botulinus, site of action of, 1936, 117: 393.

Trauma, effect of, on adrenalectomized animals, 1935, 111: 426.

intestinal, effect of, on partition of blood stream, 1937, 118: 734.

Tri-brom ethanol and some homologues, 1937, 119: 366.

Trigeminal conditioned reflexes, olfactory and, 1937, 118: 532.

Tyramine, absorption of, from intestine, 1932, 99: 317.

Tyrosine, intravenous, metabolic effects of, 1933, 103: 279.

intravenously injected, distribution of, 1935, 110: 573.

intravenously injected, fate of, 1933, 103: 288.

U

Ultraviolet absorption, differential, in live and dead cells, 1936, 116: 98.

Ultra-violet transparency of human skin, 1929, 91: 58.

Uranium, localization of, in uranium intoxication, 1933, 105: 693.

Urea and creatinine clearance in dog, 1931, 99: 101.

and creatinine clearances on mixed diet, 1931, 98: 572.

comparison of, with urea + ammonia clearances in acidotic dogs, 1936, 116: 121.

distribution of, in blood, 1935, 113: 629.
excretion of inulin, creatinine, xylose and, in rabbit, 1935, 113: 354.
extraction of, by kidney, 1937, 119: 483.
influence of, on blood clotting, 1930, 94: 51; 1931, 96: 509.
passage between blood and intestinal lumen, 1932, 101: 391.
renal excretion of, 1935, 112: 529.
water economy in renal excretion of, 1934, 109: 139.

Urea clearance and proteinuria during exercise, 1936, 117: 658.

blood flow and, 1934, **110**: 387. in chicken, 1937, **119**: 385. in dogs, 1933, **104**: 615. influence of diet on, 1937, **119**: 87. in normal dogs, 1932, **102**: 1. of rats. 1936, **116**: 349.

Urea clearance test in normal dogs, 1931, 97: 432.
Urea excretion by amphibian kidney, 1937, 118: 153.
glomerular filtration and, in dog, 1936, 117: 206.
in rat, oxygen use and, 1933, 106: 745.
mechanism of, 1934, 109: 336.
relation of, to mass of renal tissue, 1932, 100: 402.

Urethane, blood concentration under, 1933, 106: 35.

Urethra, rhythmic contractions of, 1934, 108: 192.

Urethral clonus, 1934, 109: 56.

Uric acid, allantoin and, after removal of liver, 1933, 104: 242. intravenously injected, disappearance of, 1932, 102: 620.

Uric formation, how pituitrin inhibits, 1936, 116: 1. Urinary bladder, insulin and motility of, 1932, 100: 1. Urinary constituents, clearances of, 1933, 105: 98.

various, clearances of, 1933, 104: 412.

Urinary excretion of sodium pregnandiol glucuronidate in menstrual cycle, 1937, 119: 417.

Urinary hebin, 1935, 113: 33.

Urinary nitrogen, metabolism and, of Oriental women, 1935, 113: 291.

Urinary oestrin, quantitative determination of, 1935, 112: 340.

Urine, acidification of, in amphibian renal tubule, 1937, 118: 144.
after administration of glycine, 1937, 118: 562.

albumen in, following exercise, 1932, 101: 357, 365.

and body fluids, citric acid in, 1934, 107: 471.

changes in reaction of, on awakening, 1930, 91: 618.

diabetic, blood sugar raising substance in, 1937, 118: 659.

effect of high frequency current on, 1934, 107: 170.

excretion of, in dog, 1931, 99: 101; 1932, 102: 534.

excretion of oestrin in, 1931, 98: 578.

follicle-stimulating, of certain individuals, 1934, 108: 22.

human pregnancy, effect of injection of, on prolongation of pregnancy, 1935, 111: 507.

normal, lysin present in, 1934, 107: 603.

of albino rats, origin of protein in, 1935, 113: 120.

of chimpanzee, theelin content of, 1935, 110: 593.

of pregnancy, action of, on uterine motility, 1932, 100: 545.

of pregnancy, effect of, on hypophysis, 1935, 111: 312.

of pregnancy, effect of, on lactating mice, 1933, 103: 30.

of pregnancy, effect on ovulation of injections of, 1932, 99: 332.

of rats, sex hormone in, 1932, 101: 246. pregnancy, by mouth to gonadectomized rats, 1934, 110: 499.

pregnancy, effect of intrafollicular injection of, 1932, 101: 482.

pregnancy, effect of, on ovaries of monkey, 1934, 108: 528.

Urine chloride, relation of, to plasma chloride, 1936, 115: 455.
Urine excretion in dog, 1931, 98: 572; 1932, 100: 301; 1932, 101: 625, 639; 1933, 106: 1. in dogs, effects of epinephrine on, 1937, 119: 140.

Urine excretion. See Micturition.

Urine flow and diuresis in marine teleosts, 1931, 97: 602.

rate of, and excretion of inulin, creatinine, xylose and urea in rabbit, 1935, 113:75

Urine formation, circulatory conditions required for, 1935, 113: 1.

circulatory control of, 1936, 117: 366.

epinephrine and, 1936, 115: 200.

excretion of urea and creatinine in dog in relation to rate of, 1936, 116: 141. under anoxia in dogs, 1935, 113: 131; 1937, 119: 127.

Urine pH, serum and, pituitary extract and, 1933, 106: 505.

Urine phosphatase, serum and, after bile duct ligation, 1937, 120: 696.

Urine principle, reticulocytogenic, relation of, to hemopoietic or antipernicious anemia liver principle, 1937, 119: 417.

Urine production, oxygen tension and, in frogs, 1935, 111: 75.

Urine secretion and hypophysis, 1935, 113: 578.

Urine sugar and protein, blood and, in exercise, 1931, 98: 352.

Uterine activity, method for recording, 1930, 92: 420.

relation of, to oestrus in rat, 1931, 98: 153.

rôle of ovary in, 1933, **105**: 566.

Uterine bleeding of monkey, 1933, 106: 416.

of monkeys, 1933, 105: 473.

relation of hypophysis and ovaries to, 1932, 100: 8.

Uterine changes, rhythmic vascular, 1932, 100: 32.

Uterine component of intra-uterine pressure, 1937, 119: 423.

Uterine endometrium, effect of estrin injections on, 1930, 95: 630.

Uterine fistula, activity of, 1930, 94: 696.

response of, to injection of urine from pregnant women, 1930, 94: 705. rôle of ovary in regulating motility of, 1931, 97: 554.

Uterine grafts, vaginal and, as indicators of oestrin production, 1936, 117: 672.

Uterine growth, physical and hormonal factors in, 1936, 116: 127.

stimulation of, by distention, 1936, 116: 510.

Uterine horns of rat, excised, activity of, 1931, 99: 227.

Uterine, intra-, respiration and breathing of amniotic fluid, 1937, 119: 393.
respiratory movements, 1937, 119: 153.

Uterine motility, action of pregnancy urine on, 1932, 100: 545.

concentrations of adrenalin and pituitrin and, 1936, 116: 71.

effect of calcium salts on, 1933, 105: 358.

in cow, 1936, 116: 44.

in hypophysectomized rabbits, 1933, 104: 331.

in rabbits, progestin and, 1932, 102: 39.

in rat, 1936, 116: 117.

local vascular changes and, 1936, 117: 86.

Uterine muscle of sow, oxygen usage of, 1932, 99: 631.response of, to human seminal fluid, 1935, 112: 577.

Ute Ute Uterine response to estrin, ovarian factor which inhibits, 1937, 119: 311.

Uterine temperature during oestrus, pregnancy and other physiological changes in unanesthetized rat, 1936, 116: 68.

Uterus and vagina, response of, to follicular hormone, 1932, 99: 349.

dog's, coördinating mechanism of, 1931, 97: 556.

effect of lactation and exercise on involution of, 1936, 117: 487.

excised rat, contraction types in, 1934, 109: 48.

excised rat, effect of ovarian substances on, 1932, 99: 552.

motor sympathetic innervation of, 1935, 112: 640.

of rat, excised, contraction types of, 1934, 108: 33.

of rat, volume and irritability of, in oestrous cycle, 1932, 100: 331.

rabbit, rhythmic vascular changes in, 1932, 100: 374.

rat, reactions of, before and after adrenalectomy, to histamine and anaphylaxis, 1934, 109: 106.

rat, reactions of, to histamine and anaphylactic shock, 1934, 108: 416.

reactivity of, 1935, 111: 250.

response of, to pituitrin and progestin, 1936, 115: 376.

reversal by progestin of responses of, 1937, 118: 190.

studies on, 1930, **92**: 420, 430; 1930, **94**: 696, 705; 1931, **97**: 706; 1931, **98**: 230, 237.

transmission of nerve impulses to, 1937, 119: 527.

V

Vagal and accelerator effects on cardiac rate, 1934, 110: 42.

Vagal control of cardiac tonus, 1931, 98: 585. of liver functions, 1937, 118: 345.

Vagal depression of turtle atrium, 1932, 100: 459.

Vagal effects, chemical transmission of, to small intestine, 1935, 114: 100.

Vagal gastric effects, relation of, to Wedensky inhibition, 1930, 92: 453.

Vagal inhibition of turtle atrium, 1930, 93: 650.

Vagal innervation and parathormone, 1933, 105: 94.

Vagal proprioceptive reflexes, 1937, 119: 517.

Vagal stimulation, activation of gastric secretion by, 1931, 96: 363.

Vagal volley, single, action of, and dependence of its chronotropic effect on rhythmic mechanism of pacemaker, 1936, 116: 50.

single, response of eel heart to, 1936, 117: 596.

Vaginal and uterine grafts as indicators of oestrin production, 1936, 117: 672.

Vaginal reaction in spayed mice, 1930, 95: 422.

Vaginal smears, body temperature and basal metabolism, 1937, 119: 635.

Vagospasm, study of, 1933, 105: 469.

Vagotomy, depressor-cardiac reflex after, 1935, 110: 602.

double, and carotid sinus denervation, effect of, on reaction to hyperventilation, 1937, 119: 350.

effect of, on blood pressure and heart rate, 1930, 92: 275.

effect of, on gastric emptying time, 1934, 109: 221.

gastric acidity after gastrectomy and, 1936, 117: 533.

late effects of, on gastric acidity, 1932, 99: 375.

sympathectomy and, insulin and heart rate after, 1931, 96: 311.

Vagus, accelerator fibers in, 1932, 101: 274.

action of amytal on, 1930, 91: 461.

action of, on heart during acute anoxemia, 1933, 105: 469.

as pathway of efferent coronary constrictor nerves, 1934, **109**: 44. reflex effects from brief stimulation of, 1937, **119**: 274.

reflex inhibitory action of, on medulliadrenal secretion, 1931, 98: 55.

Vagus control of auricular excitability in turtle, 1931, 98: 109. of turtle heart, chronaxie of, 1930, 94: 101.

of turtle heart, distribution of, 1935, 112: 207.

ventricular excitability in turtle, 1931, 98: 102.

Vagus fibres of chick heart, action of caffeine on, 1932, 100: 357.

Vagus inhibition and interference with conduction of cardiac impulse, 1935, 113: 51.

Vagus nerve, influence of, on esophageal secretion, 1933, 104: 73.

influence of, on glycemic level, 1933, 105: 257. mammalian, 1933, 106: 623.

repeated and prolonged stimulation of, 1936, 116: 44.

Vagus nerves and sugar tolerance in dogs, 1934, 108: 210.

chronotropic function of, 1937, 120: 571.

Vagus section, effect of, on gastric acidity, 1929, 91: 161.

Vagus substance in blood, humoral action of, 1931, 98: 435.

Vapor tension, evaporation of frogs in relation to, 1930, '93: 628.

Vascular changes, local, and uterine motility, 1936, 117: 86.

respiratory and, during convulsions, 1931, 97: 92.

Vascular control, function of Pacinian corpuscles in, 1935, 114: 77.

Vascular responses in suprarenal ectomized rats, 1932, 99: 285.

Vasodilatation and contracture, 1930, 92: 679.

Vasodilator nerves, inhibitory action of, 1936, 117: 457.

Vasodilators, adrenergic, in the rat, 1936, 116: 182.

in sympathectomized animals, 1934, 108: 599.

Vasomotor caroud sinus reflexes, sympathectomy and, 1937, 120: 195.

Vasomotor changes from temperature changes of medulla, 1931, 97: 503.

Vasomotor control of coronary vessels, 1935, 113: 361, 399. of liver circulation, 1930, 95: 20.

Vasomotor effect of acetylcholine on stomach, 1936, 116: 330.

Vasomotor effects of locally applied CO₂, 1937, 119: 272.

Vasomotor mechanisms, depression of, by adrenin, 1935, 113: 271.

Vasomotor reflexes, analysis of, 1934, 109: 409. in sympathectomized cats, 1931, 98: 454.

Vasomotor responses, exchange of heat and, 1936, 117: 36.

Vasomotor system, cortical representation of, 1937, 118: 641.

Vasomotor temperature regulation, physical factors in, 1937, 120: 133.

Veins, elasticity of, 1933, 105: 418.

Venesection in overdistended heart, 1931, 98: 556.

Venom, black widow spider, 1935, 113: 32.

cobra, action of, on nervous system, 1935, 113: 90.

cobra, effect of, on paralysis agitans, 1937, 119: 367.

of honey-bee, physiologic action of, 1930, 94: 209.

of water moccasin, action of, 1932, 99: 681.

rattlesnake, immunity to, 1931, 97: 180.

rattlesnake, physiology of, 1931, 97: 22, 26.

rattlesnake, specificity of immunity to, 1932, 99: 685.

Venous blood flow, continuous measurement of, 1934, 109: 688.

Venous blood pressure and intramuscular pressure, 1936, 114: 261.

Venous pressure, 1930, 95: 294.

measurements, hydrostatic factor in, 1934, 109: 166.

reflex respiratory activity and, 1932, 100: 417.

rubber-celluloid capsule for measuring, 1936, 116: 153.

Venous pressures and posture in young women, 1934, 109: 72.

Ventilation, hyper-, cardiac output in, 1933, 104: 142.

Ventricle, fourth, respiration and cooling of floor of, 1937, 118: 441.

interference with conduction in, 1934, 109: 89.

left, effect of destruction of portions of, on electrocardiogram, 1933, 105: 44.

mammalian, excitatory process in, 1935, 113: 111; 1936, 115: 43.

mammalian, spread of impulse in, 1934, 109: 1; 1937, 120: 635.

mammalian, tone in, 1937, 118: 26.

possible suction action of, in diastole, 1934, 107: 178.

relaxation process in filling of, 1930, 95: 542.

Ventricle. See Cardiac.

Ventricles, mammalian, pathway taken by impulse in, 1937, 119: 257.

Ventricular action currents after coronary occlusion, 1935, 113: 683.

Ventricular adjustment to internal pressure, 1933, 106: 329.

Ventricular alternation from reduced coronary blood flow, 1936, 114: 407.

Ventricular base, movements of, and cardiac volume, 1932, 102: 559.

Ventricular contractions, premature, cardiographic curves of, 1936, 115: 569.

Ventricular dilatation, maze-learning of rats after, 1933, 104: 51.

Ventricular escape, influence of cardiac sympathetics and adrenin on, 1935, 113:

Ventricular excitability in turtle, vagus control of, 1931, 98: 102.

Ventricular fibrillation, 1929, 91: 305.

acetyl-choline and, 1935, 110: 675.

altered tissue state in, 1935, 112: 301.

and carbohydrate metabolism, 1933, 105: 246.

bound water in cardiac muscle in relation to, 1934, 110: 485.

caused by electric shock, 1930, 92: 223; 1930, 93: 197.

chemical factors in, 1930, 92: 639.

factors in, 1932, 99: 279.

in cat, effect of accelerator nerve stimulation and of adrenalin on recovery from, 1936, 116: 145.

in cat, recovery from, 1936, 115: 507.

production and prevention of, 1934, 109: 78.

relation of electric countershock to, 1932, 101: 65.

Ventricular lesions, electrocardiographic study of, 1935, 111: 382.

Ventricular minute-output time, exercise and, 1930, 94: 140.

Ventricular muscle, effects of cold and of veratrin on action potential of, 1930, 92:

response of, to repetitive stimuli, 1930, 92: 160.

Ventricular pressure curves, aortic and, 1935, 112: 130.

Ventricular response to anterior coronary ligation, 1932, 100: 629.

Ventricular surface excitation, sequence of, 1937, 118: 333.

Vertebral-carotid arterial anastomoses, 1933, 106: 28.

Vestibular reflexes, interaction of, 1933, 105: 122.

Vestibular system, effects of lesions of, in Macacus rhesus, 1937, 119: 266.

Vestibule, unilateral extirpation of, after median longitudinal incision of midbrain, 1930, 93: 679.

Viability of young, reproduction and, maternal diet and, 1936, 115: 147.

Vibration, intense sonic, action of, on pepsin and trypsin, 1934, 109: 19.

Viosterol and oxygen consumption of frog muscle, 1935, 113: 464. effect of, on calcium content of dog bile, 1934, 110: 471.

effect of, on excretion of nitrogen, calcium and phosphorus, 1931, 97: 567, intraperitoneal administration of, 1932, 102: 527.

Visceral afferent impulses, pathway for, 1931, 97: 249.

Visceral nerves, types of fibers in, 1930, 94: 170.

Visceral organism, preparation and activities of, 1930, 92: 205.

Visceral pathways, centripetal, 1937, 120: 587.

Viscero-cardiac reflexes, electrocardiographic study of, 1932, 101: 26.

Viscero-pannicular reflex, 1935, 112: 573.

Viscosity and erythrocyte volume of blood, 1935, 114: 128.

of blood in narrow capillary tubes, 1931, 96: 562.

Vision, carotenoids and, 1934, 109: 107.

entoptic, ocular luminescence as source of, 1934, 108: 409.

Vision. See Eyes.

Visual discrimination with changes in inspired air, 1936, 115: 679.

Visual effects, circulatory and, of oxygen at 3 atmospheres pressure, 1936, 114: 436,

Visual intensity discrimination, carbon dioxide and, 1936, 117: 75.

in different parts of spectrum, 1937, 119: 330.

Visual perception of motion, 1930, 94: 611.

Visual response, some neural components of, 1937, 118: 792.

Visual stimuli, subliminal, temporal summation of, 1931, 97: 525; 1931, 98: 644.

Vital capacity, basal metabolism and, of Syrian women, 1930, 92: 189.

of lungs at low barometric pressure, 1932, 100: 426.

of the Siamese, 1932, 102: 267.

postural changes in, in relation to cardiac dyspnea and storage of blood in lungs, 1931, 97: 528.

postural reduction in, 1932, 99: 526.

Vitamin A, effects of diet deficient in, 1932, 101: 529.

qualitative blood cell changes due to, 1935, 111: 397.

significance of, throughout life cycle, 1934, 109: 430.

Vitamin A and D content of some margarines, 1931, 96: 257.

Vitamin A assay, paired feeding method and, 1933, 104: 608.

Vitamin A content of livers of depancreatized dogs, 1934, 107: 157.

Vitamin A deficiency and salivary conditioned reflex from morphine, 1934, 109: 25. in depance atized dogs, 1933, 103: 458.

in the dog, 1937, 118: 477.

Vitamin A potency of retinal tissue, 1931, 97: 611.

Vitamin A requirements of the rat, 1936, 116: 456.

Vitamin B, anorexia due to lack of, 1931, 98: 589.

blood changes and, 1930, 91: 520.

in rice disease of pigeons, 1930, 93: 161.

studies in, 1932, 102: 566, 573, 581, 593, 598, 604.

Vitamin B assay, paired feeding method and, 1933, 104: 594.

Vitamin B deficiency, anorexia of, 1930, 93: 641.

effect of water-intake in, 1930, 95: 537.

gastric motility and, 1930, 91: 531.

gastric motility, anhydremia and, 1930, 92: 83.

insulin and gastric atony in, 1930, 91: 547.

nervous system in, 1934, 107: 459.

testis hormone in, 1931, 96: 278.

water intake and anorexia in, 1933, 104: 484.

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7

Vitamin B-deficient diets and insulin tolerance in albino rat, 1937, 119: 364.

Vitamin B potency of fresh and dried yeast, 1933, 103: 25.

Vitamin B requirement for maintenance and growth, 1934, 109: 27. relation of, to metabolism, 1933, 105: 678.

Vitamin B requirements, 1932, 101: 115.

Vitamin B₁ and pyruvic acid oxidation in polyneuritis, 1936, 117: 142. influence of, on experimental convulsions, 1937, 119: 377.

Vitamin C and adrenal cortical hormone, 1936, 116: 187. and reproduction in guinea pig, 1930, 95: 64. in rat, synthesis and distribution of, 1936, 116: 446. relation of adrenal cortex to, 1936, 117: 553.

Vitamin C deficiency and reproduction in guinea pig, 1933, 106: 611.

Vitamin D, diet and response to parathyroid and, 1933, 105: 585, 596, 608, 621.
rôle of thyroid in calorigenic action of, 1936, 117: 1.

Vitamin D treatment in arthritis, mineral metabolism in, 1935, 113: 108.

Vitamin G as preventive of blacktongue, 1936, 114: 429.
in human milk, 1932, 100: 420.

Vitamin G (B₂) deficiency, 1934, 109: 24. in dogs, 1934, 109: 115.

Vitamins, fat-soluble, rôle of bile in transport of, 1935, 111: 492, 502. interrelation of hormones and, 1933, 106: 267.

physiology of, 1930, 91: 513, 520, 531, 547, 554; 1930, 92: 83; 1930, 96: 537; 1931, 96: 372; 1931, 98: 589; 1932, 99: 689; 1932, 101: 115; 1933, 105: 146.

Vitamins B and G in renal enlargement, 1931, 97: 210.

Vitamins B (B1), C and G (B2), relation of adrenal cortical hormone to, 1934, 109: 35.

Vocal sac as nerve-muscle preparation, 1930, 93: 681.

Voltage-capacity curve, equation of, 1935, 112: 277. Vomiting, physiology and pharmacology of, 1931, 97: 538.

Vomiting reflex from distended pyloric pouch, 1931, 99: 156.

W

Waltzing and shaking rodents of particular genetic types, 1936, 116: 126.

Warburg apparatus, modified, and applications, 1931, 97: 522.

Warmth sensations, change of latency of, by stimulation of cold end-organs, 1931, 97: 504.

Water and chloride excretion of decerebrate cats, 1935, 112: 386. and salt exchange in elasmobranch fishes, 1931, 98: 279, 296. redistribution of, in toxic and neurogenic fevers, 1931, 97: 544.

Water absorption by skeletal muscle cells, 1933, 106: 115.

Water balance, evaporation and, 1936, 115: 670.

in anesthetized frogs, 1934, 108: 550.

in blood and tissues, 1932, 101: 1.

in rat, pituitary gland influences on, 1937, 119: 5.

Water changes in muscle, electrolyte and, during atrophy, 1937, 120: 719.

Water content of fecal material in colon, 1935, 112: 559.

Water diuresis, conditioned inhibition of, 1933, 103: 362.

Water economy in renal excretion of urea, 1934, 109: 139.

Water evaporation from skin, effect of lipoids on, 1935, 113: 74.

Water exchange after transfusion, 1934, 107: 647.

heat regulation and, 1931, **98**: 615; 1933, **104**: 127; 1934, **107**: 70. increased, after Eck fistula in dogs, 1935, **113**: 31.

X-ray

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increased, following Eck fistula, 1936, 117: 318. mechanism of, 1930, 95: 302, 315, 325, 330, 334, 339, 348, 364. pituitary regulation of, 1937, 118: 276.

Water exchanges of frogs with and without skin, 1931, 96: 569.

Water intake, 1932, 102: 336, 344.

after intravenous administration of hypertonic NaCl and urea, 1935, 113: 50. and anorexia in vitamin B deficiency, 1933, 104: 484. deficient, effects of, on growth of rat, 1931, 97: 146. effect of, in vitamin B deficiency, 1930, 95: 537.

in adrenalectomized dogs, 1934, 108: 144. relation between blood osmotic pressure, fluid distribution and, 1937, 120: 323.

Water intakes in mice, food and, 1931, 98: 169.
Water interchange in frogs, effects of pituitrin, pitocin and pitressin on, 1934, 109:

in frogs, pitressin and, 1931, 98: 255.

Water intoxication in adrenalectomized dog, 1937, 119: 557.

Water loss, effects of pitressin on tissue water and, 1935, 113: 2. insensible, device for measuring, 1935, 113: 95. insensible, through skin, 1932, 102: 60.

Water metabolism, factors in, 1935, 113: 193. in hypophysectomized frogs, 1935, 112: 397. salt and, after adrenalectomy, 1935, 111: 305.

Water retention in blood after ingestion of glucose, 1931, 98: 216.

Wedensky inhibition, curarization, fatigue and, 1937, 119: 236.
relation of vagal gastric effects to, 1930, 92: 453.

Weight, body structure and, effect of gonadectomy on, 1936, 114: 515.

of offspring of rats, effect of antuitrin on, 1934, 108: 593. Weight loss following ingestion of food, 1935, 111: 448.

insensible, blood osmotic pressure and, 1933, 104: 392.

Weight loss changes in relation to food, 1935, 114: 235.

White blood cell picture in six young men, 1937, 118: 690. White cell count in blood of man, variations in, 1933, 105: 547.

White cell count in blood of man, variations in, 1933, 105: 547.
in man, basal level of, 1933, 105: 217.

Work, albuminuria and, 1932, 101: 365.

at high altitude, lactic acid in rest and, 1936, 116: 367. done and energy liberated by cardiac muscle, 1933, 103: 400. effect of adrenalectomy on capacity for, 1935, 112: 65. external, of isolated turtle heart, 1932, 99: 579. mechanical, in running, 1930, 93: 433. moderate, effects of adrenalin injection in, 1935, 111: 9. muscular, effect of, on gastric acidity, 1932, 102: 258. of sprinting, kinetic and frictional factors in, 1930, 92: 583. on bicycle ergometer, responses to, 1931, 97: 353, 558.

Work capacity after adrenalectomy, cortin and, 1936, 116: 622. after destruction of adrenal medulla, 1936, 114: 653. of rats, partial adrenalectomy and, 1935, 113: 200.

Work output, capacity of skeletal muscle to maintain, 1934, 110: 357.

X

Xerophthalmia in mice, experimental production of, 1930, 92: 282. X-radiation of head, acoustic sensitivity after, 1937, 119: 13.

X-ray crystal methods, investigation of structure of fibrin by, 1930, 94: 497.

X-ray diffraction patterns in connective tissue, 1931, 98: 328.

X-ray diffraction study of rachitic bone, 1934, 108: 74.

X-ray injury, modification of, by CO2 and ammonia, 1934, 109: 115.

X-ray treatment in rats, 1935, 113: 39.

0.

X-rays, effects of, on adrenal gland, 1930, 93: 219. stage of development of an organ and, 1937, 119: 290.

Xylose and urea, inulin, creatinine, excretion of, in rabbit, 1935, **113**: 354. excretion of, by man, 1934, **109**: 29.

kinetics of excretion and utilization of, 1937, 119: 429.

Y

Yeast, brewer's, effect of, on blood production, 1936, 116: 626.
fresh and dried, as sources of vitamin B, 1933, 103: 25.
Yohimbine and certain drugs, effect of, on nictitating membrane, 1936, 116: 574.

2

Zinc in nutrition of rat, 1934, 107: 146.
physiology of, in nutrition, 1937, 119: 768.
Zinc sulphate and augmentation of ovarian weight, 1937, 118: 316.